

PA-0043 US

<110> Huei-Mei Chen

<120> GENES EXPRESSED IN SENESENCE

<130> PA-0043 US

<140> To Be Assigned

<141> Herewith

<160> 144

<170> PERL Program

<210> 1

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 255161.1

<400> 1

```
gctgtaaaaa gctttatctt catttggtct aaggcttggg agaggggctct agagttgggt 60
taaaaaagct gcctagtggc tggagggaga ggcttaggca gagcggggct cttcagatgt 120
cgctgggttc ggtaggctcc cgtgtgcctg aggggtgaacc tttttgcca gcccggcctg 180
gagggcggct ggctgtgaa ggttggtcag gtgggtcacct atcttcttga tgagttttac 240
tttttcatct aggaagtggc tctccaggaa gtcacagata tgggggtctg tgcaggtgga 300
acccaaggca tgaagatcca aaagggtcca gtccaggttc ttctccaggc ccagagtgc 360
ttccatcgca cccagggttt taccctattc atctttacat ggcttctgga tgtccgggaa 420
gacag 425
```

<210> 2

<211> 730

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 093839.1

<220>

<221> unsure

<222> 6

<223> a, t, c, g, or other

<400> 2

```
cttttntgca acatgtaaac aacttcatcc ttttgaaaat cgggtccagg tagtaaaagc 60
tggcagtgat ttatgctgac cgggcttaga gctcctcata tgcatatata aaatacctct 120
gggctctgag gggcttctta aagaactacg ttagttctgc tccttccacc ttcttctca 180
ccctgcgttg ctgacatatc tgaagtgcc gcgagaggaa ggagcaggat gtggagccat 240
ctggagccgg gcagggtgaa cacaggacaa gcatctgctg gaaactttgc agagatatct 300
agtgcgctga tttactgtcc tttggggagt ccatgtacag aaccagatt catgaggaag 360
ccggcatctg gcaaagggtt gggtacacaa ttgtgcttga ttatcaggac atatgataaa 420
tctgtctagg cgtgtactct gtgccagatt gtggatttct tatttgccc gcatcagccg 480
tctgccagca aagcaatata aaagtgtcac aacaacaaa catgccaaaa 540
aaacctagac ttagcatagt gatataaaaa tatacagagt caccttgaaa taaaacagt 600
gtggagggtg tggcagagga aggaagggaa gtgatattgt aaaaggatt tgactaacag 660
ggcagtgggc gttgttagct ttgatgcata ctcatgtact ccacagaaaa cacaagactc 720
tatctcaaaa 730
```

<210> 3

<211> 1066

PA-0043 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 334103.1

<220>

<221> unsure

<222> 47

<223> a, t, c, g, or other

<400> 3

```
ctcacggtgg agcgccaaga gcagaaggca gggccgggca gccagangag gcggaagttc 60
ctcaacctca gattcaggac aggctcggga cagggccctt catcgacagg acagccaggc 120
aggggggttc agagtgggtt gggccgtgct tgggggtcctg gaagagttgg ggccctgggg 180
tgatagcctc gaggagactg gggctgccac aggcagcagg agagaggaga gggcagaaca 240
ggatcgagaa gtgatgcctg ctcagagcat gccattgccc acagagctcg gtgaccctag 300
actttgcgag ggaacccctc aggaaggggg actcagggca gccaggctcc atggaaagac 360
cctggagggg caggcacagg agacagcagt ggcccagagg aagcccaggg cccagccaac 420
tcctggaatg agccgggagg gtgaaggcga gggactgcag agcctggaaa tcgggatcgc 480
cagactgtcc ttgagagaca caaccgaagg aggcacacag attggcccac cagaaattag 540
ggtgcgagta cacgatttaa agacaccaa atttgcattt tccacagaaa aagagccaga 600
aagagaaagg cgccttagta cccacagcg aggggaagaga caggatgctt cctcaaaagc 660
gggtactggc ctgaagggtg aggaggtgga aggagccggg tggatgccgg gcaggggaac 720
aaccacacat gcagaagcac agggggatga aggagatgga gaggaaggac tacagaggac 780
aaggatcact gaggaacagg acaagggcag ggaagacaca gaaggacaga taagaatgcc 840
caagttcaag ataccctcct taggatggtc gccaaagcaag cacacaaaga caggcagaga 900
aaaagccaca gaagacacag agcagggaaag ggaaggagag gccacagcaa cagctgatag 960
aagagaacag agacgcacag aggaaggatt aaaagacaaa gaagacagtg actcaatgac 1020
aaacacaaca aaaatacaac taatacacga tgaaaaacgc ttaaaa 1066
```

<210> 4

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 345043.1

<400> 4

```
cactactgag ttctagttct ctaaagacaa atactcatat ggtcaaaaca gaattataat 60
ctaacgagtc attcttatag agtgggattc gaggagggaa aacagatagc tagtaattta 120
aatgatctta atgtaatttg gggagaggat gatcagatga catttagact tggatatagt 180
ttctgcttca aaccacgcgt gtgtgtgtct g 211
```

<210> 5

<211> 3034

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1382838.5

<400> 5

```
gcctggctcc cagctgggtgc tgaagctcgt cagttcacca tccgccctcg gcttccgcgg 60
ggcgctgggc cgccagcctg cggcaccgtc ctttcctttc tccctcgcgt taggcagggtg 120
acagcaggga catgtctcgg gagatgcagg atgtagacct cgctgagggtg aagcctttgg 180
tgagaaagg ggagaccatc accggcctcc tgcaagagtt tgatgtccag gagcaggaca 240
tcgagacttt acatggctct gttcacgtca cgctgtgtgg gactcccaag ggaaccgcgg 300
```

PA-0043 US

```

ctgtcatcct cacctaccat gacatcggca tgaaccacaa aacctgctac aacccccctct 360
tcaactacga ggacatgcag gagatcaccc agcactttgc cgtctgccac gtggacgccc 420
ctggccagca ggacggcgca gcctccttcc ccgcagggtta catgtacccc tccatggatc 480
agctggctga aatgcttcct ggagtccttc aacagtttgg gctgaaaagc attattggca 540
tggaacagg agcaggcgcc tacatcctaa ctcgatttgc tctaaacaac cctgagatgg 600
tgaggggcct tgtccttatc aacgtgaacc cttgtgcgga aggctggatg gactgggccc 660
cctccaagat ctgaggatgg acccaagctc tgccggacat ggtggtgtcc cacccttttg 720
ggaaggaaaga aatgcagagt aacgtggaag tgggtccacac ctaccgccag cacattgtga 780
atgacatgaa ccccggaac ctgcacctgt tcatcaatgc ctacaacagc cggcgcgacc 840
tgagattga gcgaccaatg ccgggaaccc cctgcagtgc cctgcagtgc cctgctctgt 900
tggtggttgg ggacactctc ctgcagtgg atgccgtggt ggagtgaac tcaaaattgg 960
acccaacaaa gaccactctc ctcaagatgg cggactgtgg cggcctcccg cagatctccc 1020
agccggccaa gctcgtgag gccttcaagt acttcgtgca gggcatggga tacatgccct 1080
cggctagcat gacccgcctg atgcggtccc gcacagcctc tggttccagc gtcacttctc 1140
tgatggcac ccgcagccgc tcccacacca gcgagggcac ccgaagccgc tcccacacca 1200
gcgagggcac ccgcagccgc tccacacca gcgagggggc ccacctggac atcccccca 1260
actcgggtgc tgcctggaa agcgcggggc ccaagtccat ggaggtctcc tgctaggcgg 1320
cctgcccagc tgcggcccc ggactctgat ctctgtagt gccccctcct ccccgcccc 1380
ttttgcccc ctgcctgcca tactgcgct aactcgggtat taatccaaag cttattttgt 1440
aagagtgcg tctggtggag acaaatgagg tctattacgt ggggtgccctc tccaaaggcg 1500
gggtggcggt ggaccaaagg aaggaagcaa gcatctccgc atcgcatcct cttccattaa 1560
ccagtggcgg gttgccactc tctccctcct cctcagagac accaaactgc caaaaacaag 1620
acgcgtagca gcacacactt cacaaagcca agcctaggcc gccctgagca tcttggttca 1680
aacgggtgcc tggtcagaag gccagccgcc cacttcccgt ttcctcttta actgaggaga 1740
agctgatcca gtttccggaa acaaatcct tttctcattt ggggaggggg gtaatagtga 1800
catgcaggca cctcttttaa acaggcaaaa caggaagggg gaaaaggtgg gattcatgtc 1860
gaggctagag gcatttggaa caacaaatct acgtagttaa cttgaagaaa ccgattttta 1920
aagttggtgc atctagaaag ctttgaatgc agaagcaaac aagcttgatt tttctagcat 1980
cctcttaatg tgcagcaaaa gcaggcaaca aaatctcctg gctttacaga caaaaatatt 2040
tcagcaaacg ttgggcatca tgggttttga aggctttagt tctgctttct gcctctcctc 2100
cacagcccca acctccacc cctgatacat gagccagtga ttattcttgt tcaggagaa 2160
gatcatttag atttgttttg cattccttag aatggagggc aacattccac agctgccctg 2220
gctgtgatga gtgtccttgc aggggcccga gtaggagcac tggggtgggg gcggaatttg 2280
ggttactcga tgtaagggat tccttgttgt tgtgttgaga tccagtgcag ttgtgatttc 2340
tgtggatccc agcttggttc caggaatttt gtgtgattgg cttaaateca gttttcaate 2400
ttcgacagct gggctggaac gtgaactcag tagctgaacc tgtctgacct ggtcacgttc 2460
ttggatccta agaactcttt gctctgtcgc ggggtggggg gggaactcac gtggggagcg 2520
gtggctgaga aaatgtaagg attctggaat acatattcca tgggactttc cttccctctc 2580
ctgcttcctc ttttctgct ccctaacctc tcgccgaatg gggcagcacc actgacgttt 2640
ctgggcccgc agtgccgtg ccaggttctc gtactactgc cttgtacttt tcattttggc 2700
tcaccgtgga ttttctcata ggaagtttgg tcagagtga ttgaatattg taagtcagcc 2760
actgggacct gaggatttct gggacccgc agttggagg aggaagtagt ccagccttcc 2820
aggtggcgtg agaggcaatg actcgttacc tgccgcccat cacttgagg gccttccctg 2880
gccttgagta gaaaagtcgg ggatcggggc aagagaggct gagtacggat gggaaactat 2940
tgtgcacaag tctttccaga ggagtttctt aatgagatat ttgtatttat ttccagacca 3000
ataaatttgt aactttgcaa aaaaaaaaaa aagg

```

<210> 6
 <211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 403456.3

```

<400> 6
cctattcctt gtaactgcaa agtcctatcc ccatcaggac ttctaataca ttgtcaggag 60
cgcaacattg aaagcttata agatctgaga cctcctccgc aaaatcctag aaagtcatt 120
ctagcgggaa atattattca cagtttaatg aagtctgata tagtggata tttcactttg 180
gaaatgcttc acttgggaaa caatcgtatt gaagttcttg aagaaggatc gtttatgaac 240
ctaacgagat tacaaaaact ctatctaaat ggttaaccacc tgaccaaat aagtaaaggc 300

```

PA-0043 US

atgttccttg gtctccataa tcttgaatac ttatatcttg aatacaatgc cattaaggaa 360
atactgccag gaaccttttaa tccaatgcct aaacttaaag tcctgtatit aaataacaac 420
ctctccaaag ttttaccacc acatatitit ttaggggttc ctctaactaa ggtaaatctt 480
aaaacaaacc agtttaccac tctacctgta agtaatatit tggatgatct tgatttacta 540
accagattg accttgagga taacccttgg gactgctcct gtgacctggg tggac 595

<210> 7

<211> 4573

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1330204.22

<220>

<221> unsure

<222> 3145-3168

<223> a, t, c, g, or other

<400> 7

cgcagtgtgc tggacagtgc attctctcct tcttgggtgtg gacgtcattg gtttgtcatg 60
gcttagtttt gcctgcctgg aaaatgggga agttaggcca ggcgggaact ctgcaaggat 120
gcagaggaag ttaagaggga aagtgtcttt gagaggagga cactgggagg ggtgggagt 180
gctcctgagg gcggtgatag gcaggcaggg ctgacttgct cacagctcac cggaggccac 240
cttggcagca cctgtaggaa gggcatgtct ggccctccaca ccagccccct cctctctcac 300
catttccccct tcaatagcac cactctcatc atctatgggg gacagtgtct tcttctctcc 360
ctgcctcctc catcaaaatc ttttctcagg ggaggggtctg aaaaggcctt cactcccccg 420
taaataacga atgggtgctta cagggtctgg ctcccacgtg catgcacatt aacaccaaag 480
gtgctgtagt gaatggaatt ggggactgga ggggaaggcg tggaggtgtg gtaggaactt 540
gtgctgggtg gggatgggag ccgtagatat cctttacacc atggtactcc ccttatctcc 600
tctgggggtga ccttgagtat cctctgtggg acaccggcat cctgtgaggc gccctccttg 660
tcccacattt gagcgtctcg ctggctcgag ggtcacattc acggtctgtg acagaggaag 720
caggggtgac cgccgcagtc ctctcctctg tcccttgcc gagtcacgtg tcacgaagag 780
caaactgagc aaactgagct gcgcagatga ggggagactc gtcaccaggc cgtgcagtgg 840
gcaactgtgg gctcccccat cccgtcctaa cccggaacag ccccgggcag gaggcgtgga 900
aagtgcaggg ggtaaaccgc gaatgtgctg tgtgtaagcc acggcgaggg gtggggcgcg 960
gaggggactt gggcgggcgg ggtgggcttg gccgagctgg cctccggggc accgaccgct 1020
ataaggccag tcggactcgc acacagccca tccctctgac cgctcgcgtc gcatttggcc 1080
gcctccctac cgctccaagc ccagccctca gccatggcat gccccttggg tcaggccatt 1140
ggcctcctcg tggccatctt ccacaagtag tccggcaggg aggttgacaa gcacaccctg 1200
agcaagaagg agctgaagga gctgatccag aaggagctca ccattggctc gaagctgcag 1260
gatgctgaaa ttgcaaggct gatggaagac ttggaccgga acaaggacca ggaggtgaac 1320
ttccaggagt atgtcacctt cctggggggc ttggccttga tctacaatga agccctcaag 1380
ggctgaaaaa aaataggga gatggagaca cctctgggg gtcctctctg agtcaaatcc 1440
acattccaaa ttttacaagt tgtccacaga tattaaagtt atagccaatt tattaacag 1560
atatgatttt cctgatatg gaaagcgtat gttatataaa catttctaca ataaacataa 1620
aacatgcgga acaaatcata aaactaacat gatttgtaag gtaggaaaga caactagctt 1680
aacaccagaa aataaaaagg tgtgtatggt gcaatttcat gtaaattcat cttctcccag 1740
gctctgtgat attctcagag aatgaaatcc agagacaacc tttgctaact ccaggctcct 1800
aggaagtcgg accggaaagc tggagtattg ttatgatttg gtgaaaatgt ttataatcca 1860
cttgtagaga gagaaacctg gtcttattat tttaaatit agcttgggtg acatatgaaa 1920
aaaagccaaa agaagcttac cttaaaagct aaagaaactg gatgtgacag aggcacaaa 1980
aaacatgaat tatggccact acagcccaaa caaccagatc ttatgaatga aggccagaaa 2040
aagggggaga gaggtggact caaatgtgaa ttttctttct attggtctc ctctcagctg 2100
ggtgagtcag tcccacgcaa gaatggcgac ggtcatctc ctgtcaagag gggcggttc 2160
tttcacacac taccttggag aggaatgtgg cttctacatc ctacttctt ttagcttcag 2220
ttccagattt ctgaccttct tctgtgata ctgtggagca tgcctagtgt actggtagct 2280
gagtggaaca aaacttgtag atgtaattca aagaaaactg attgaaaggg tcagttgcat 2340
tggttaaaaa aatccaagag cctcttatta ctcatctgtt ccttagcccc accttagaca 2400
ggctcagaat ttattcctct actaagctct cagtcactct ctgcatgtat tcaagctctc 2460

PA-0043 US

```

agcagtcata catcaaacaa tagtagttgt gtggtacata ataattataa gctattttgt 2520
aagtggctct tgttctagga aggcacctca gtaagaacaa tgatcaaaaa gaataaaaag 2580
cctgggtgcc agaccatccc aggaatgcac taagtgagcc agcaaggaag cagcagcttg 2640
tctgttccag gaaatgctgg ctgggtggga gcgggttctc accttcttca gtgtttggct 2700
ttagatgata tactctgcca atttagcctt agaaataaca agagaatatc actgtctgaa 2760
acattagggg attctaaaag aatacagata agaaaattag gatactcttt tagaataacct 2820
attattttaa acttaagctt ggtgaacatc tgaaaaaaag ccaaaagaag cttaccttaa 2880
aagctcaaga aactggatgt gacagaggcc aaaataaata tcacttatgc caaccacagc 2940
ccaaacaacc agatcttatg aaggaaggcc tctcatctag atattaggat atctaaaaga 3000
atatcctaaa tttttaatcc atattctttt agaatatcct aatttttctt cctaattcta 3060
aaagaatatc ctaatttttt agaccatcct aagtttttgg aaagccctct aagtgaagttt 3120
tctcaaagcc caaaagtctt gcccnnnnnn nnnnnnnnnn nnnnnnnncc tctaacagcc 3180
ctgaaaaacc agccagcaca ccaggaatcc accttctccc cacgggcttc ttctgcatgt 3240
gtgtccccc aactctctcat agtcaatgga gagaagggaa cactgccttc aaaatcaacc 3300
actttgctcc taggagtagg gtcctgtcag cagaggggac accaaccagc tcccagtggt 3360
gggccactca gtggaaccag gaagtatgac ccaacagacc acagagactt tgttccctgc 3420
ctccgttagg tcagcttcgg acccacgggt cactatcatc aataacgtga aatatcacat 3480
aatggctggg actatgcagt cagaccccca caaaggggct gggatccaat ctaggaagag 3540
aagctccttg ctcgatctta aaacccaaga cattatatat catcagtcct cagaaccaga aactataaaa 3600
caagaaaatc tgcgtatgga agatgatttt catcagtcct cagaaccaga aactataaaa 3660
ctgggaagga aagtttaaat aaagaattta tttccaaatt cagcagaact tctttctttc 3720
ttaaaaagcc aactgggtta aaaaaatcca agtttgtgtt ttttgggtgg gcaataatta 3780
taaagtgtgc cagtcaatgc caaccagtgt ctgattgggt tcctgtgcat gtccaatttc 3840
ctctgtgaca ctgtgttggg gccagagctt ctgaatcttc ttgaatcgct ctttgcataa 3900
atgtaaagga tttccccgtc tgagtccctg gtcgggtctc ccatagtcat caaggtaagg 3960
aggagaataa aaacagcctt tggttttgcc agctaaaaat agcacctgac attcccgtac 4020
tctcaggaag atgccactc cagagccaca ggagtaggtg tgagctgtgc aggtccttac 4080
atcctccctc tccagttcag tctggcagca gtaactctgg gagcacagca gagatccgca 4140
cacaaggcac agagttgggg ctctgctctt atcaccacga gaaattggat gcttgattaa 4200
tgaggtgctt gtaatcctct ggaaggttta ttaatttgtt agattctctt ggatatctta 4260
tagcatctct ttcaccttct agatatcttt taacttctact gttacggcac caactttcaa 4320
tcagtgaatt cattatctca ctattttctt gaaaaaggca aatgaggttg tttggtaggg 4380
aaagatagct acataaatgt tcaaaatggc ttgttccagg aacttgaatg tcgggtgggg 4440
aaggaactcc atttaagtaa tgaaaaaata aagcagaaca cttcaggaaa ggcattgattc 4500
cagctctgac actcctccac agatgccagc ccggatggta tttctttcaa ggcacttccc 4560
gtatactggt gaa 4573

```

<210> 8
 <211> 3565
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 198296.1

<220>
 <221> unsure
 <222> 2085-2300, 3428-3450
 <223> a, t, c, g, or other

```

<400> 8
aaaacactct tcacaaaatg caaaaatttt gcgttacaga cttttgagga tgtatcccag 60
cacgaagaat ttcttgagct tgacaaagat gaacttattg attatatttg tagtgatgaa 120
cttgttattg gtaaagagga gatggttttt gaagccgtca tgcgttgggt ctatcgtgcc 180
gttgatctga gaagaccact gttacacgag ctctgacac atgtgagact ccctctgttg 240
catcccaact actttgttca aacagttgaa gtggaccaat tgatccagaa ttctcctgag 300
tgttatcagt tgttgcatga agcaagacgg taccacatac ttgggaatga aatgatgtcc 360
ccaaggacta ggccacgcag gtccactggc tattctgagg tgatagttgt cgttggagga 420
tgtgagcgag ttggaggatt taatcttcca tacactgagt gctacgatcc tgtaacagga 480
gaatggaagt ctttggctaa gcttccagaa tttaccaaat cagagtatgc agtctgtgct 540
ctaaggaatg acattcttgt ttcaggtgga agaataca gccgtgatgt ctggatttat 600

```

PA-0043 US

```

aactcacagt taaatatttg gatcagagtt gcctctctca ataaaggcag atggcggtcac 660
aaaatggctg tcttccttgg taaagtatat gttgtcgggt gctatgatgg gcaaaacaga 720
cttagcagcg tagaatgtta tgattccttt tcaaatcgat ggactgaagt tgctcccctt 780
aaggaagccg tgagttctcc tgcagtgact agctgtgtag gcaaactgtt tgtgattggg 840
ggaggacctg atgataatac ttgttctgat aaggttcaat cttatgatcc agaaaccaat 900
tcttggctac ttcggtgcagc tatcccaatt gccaaaagg gtataacagc tgtatcccta 960
aacaacctga tctatgttgc cgggtggactg accaaggcaa tatactgtta cgatccagtt 1020
gaagattact ggatgcacgt acagaatata ttcagccgtc aggaaaactg tggtagtctt 1080
gtgtgtaatg gtaaaatata tctcctgggc ggaagacggg aaaatggaga agccacagac 1140
actattctct gttatgatcc tgcaacaagt atcatcacag gggtagctgc aatgccagc 1200
ccagtgtcct atcatggctg tgtgactatt catagataca atgagaaatg ctttaaaactc 1260
tgaagacagg atacctcacc gaagaagcca cactgatcca agatgggagg ttttaaaaa 1320
tctacagtgg gaacttcaca tatctccttt gtgccatag caaaaaatag taaaaataat 1380
aatttgggtg ctttctcctc aaaatatcaa tctttcaaac tataataaag cctttcctat 1440
aattgaaaaa aaaaactttt ttgttaaagg taatgggtgg tgttacttgg cctttgaaga 1500
gtgtaccttt gtaagtattt gtaagaagtc tatgtgaatt aggaaatgtc tgtctgcata 1560
ccttttagga gcgtgtgaat ggtgtcttca cttattatgt atgtttatct gtatgtatat 1620
tccttatttt gtcatatatg tagagaaaaa tgcattgact gaggcatcat ttaggttgaa 1680
gaagttaatg cttaggatgc attctaggag aaaaaatcag ttttaaaaa ctttgttgtt 1740
aacaagatat atccagattg gtttaatttta ttgaagggtt tttttctgta attgataaaa 1800
atgtaatgac aacaattcag gcatcataaa atactgaact attgtgactt tattcttaga 1860
attgctgtct tacattaaac atgttttttag ggggaagtta ggtaggagat agaaaaataa 1920
gtgcccctac aagggggatt aaaattacaa gttaattcct aagagaaaaa tgggaatggcc 1980
tttgaaggaa aaatgacca ctatggctct caaagttttt atgcatcatc tcttcaatcc 2040
tctaagaaag cctcttttct taacttgata aagcagtggg aaccnnnnnn nnnnnnnnnn 2100
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2160
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2220
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2280
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 2340
gtgctttggg tgaggacctc ttccttgatt atcccacttt ctagtgaaca gctaaaattc 2400
ctgagagtct ctactgttaa ggtaccttta ataggataaa gcagggacca cctatctcag 2460
tgggtccatt tttcttttaa aattagttat ctgaaaaaac ttagcagtag ttcccatctt 2520
taaggtaagt ctttcatttg gtccccattg tgtaaaatac taatcaacat tttcaagctt 2580
ctgtacaaca gactgctttt gtctagattt ctcaactcca ctttataaag cttatcagtt 2640
ttcagagagg aatgtgaatt ttttttctaa tgcaaataaa tggatatggc aggaactaca 2700
gcataagtga ttattgtgat tctgggtgga cggatataat ttacaacatt tagggatgtt 2760
ctaggtagcc tgctgtagtt tgacttccag tcaactgttg ctttcacatt ataatttgta 2820
tatttcttgt gatagaagg atgatgcaaa tatgtaatta aagtgtcacc agatttctgt 2880
taaaaccaag gttgaaataa aaagcctaac attggtgaagc tacattgttt tctcatttta 2940
gaatgattca gagatttcag atagacattt tttaaacttt aatgcttagc tagaatctac 3000
attctgagga aaactctaaa aaacttaaaa atttttaggg aatttttatt tttcaaatca 3060
taattttaaa atgatagata ccattttgtg ataacaacaa ttcagaaaaa aattttctat 3120
cctcttagtt gaaagaatgt aggtacagtt tggatacttg tactttaatt ttagagtaaa 3180
catctgcatt atactcttat agataataga attathtagt taagaaattc tttacagtaa 3240
atgagataat gtgtgaaaaa gtattttgta aatgctgagg attctacaaa tgatagttgt 3300
tattttcatg tgtatttgta agatcatgtc catttcatga atataggact tcacataaaa 3360
aaagactttc tcaagacaac tttatattct agtatttttc tgttgtaaaa agtattaact 3420
atttactnnn nnnnnnnnnn nnnnnnnnnn taatatccat gtgtttatta tagtaaattt 3480
gaaatgaaat cctgaaaaac agaatttttt taaacacaga cctcacacca atattaattt 3540
tttctctaca taatttaaaa ctaca 3565

```

<210> 9

<211> 998

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1138151.17

<400> 9

agagaccaca agcgacccgc agggccagac gttcttcgcc gagagtcgtc ggggtttcct 60

PA-0043 US

```

gcttcaacag tgcttgagcg gaaccggcg ctcgttcccc acccggcgccg gccgcccata 120
gccagccctc cgtaacctct tcaccgcacc ctcggactgc cccaaggccc ccgcccgcgc 180
tccagcgccg cgcaggcacc ggccggcgccg gccgcctctc cttagtgcgc gccatgacga 240
ccgcgtccac ctcgcagggtg cgccagaact accaccagga ctcagaggcc gccatcaacc 300
gccagatcaa cctggagctc tacgcctcct acgtttacct gtccatgtct tactactttg 360
accgcgatga tgtggctttg aagaactttg ccaaatactt tcttcaccaa tctcatgagg 420
agagggaaca tgctgagaaa ctgatgaagc tgcagaacca acgagggtggc cgaatcttcc 480
ttcaggatat caagaaacca gactgtgatg actgggagag cgggctgaat gcaatggagt 540
gtgcattaca tttggaaaaa aatgtgaatc agtcactact ggaactgcac aaactggcca 600
ctgacaaaaa tgacccccat ttgtgtgact tcattgagac acattacctg aatgagcagg 660
tgaaagccat caaagaattg ggtgaccacg tgaccaactt gcgcaagatg ggagcgccccg 720
aatctggcct ggcggaatat ctctttgaca agcacacctt gggagacagt gataatgaaa 780
gctaagcctc gggctaattt ccccatagcc gtgggggtgac ttccctggtc accaaggcag 840
tgcatgcatg ttgggggtttc ctttaccttt tctataagtt gtaccaaacc atccacttaa 900
gttctttgat ttgtaccatt cttcaaataa aagaaatttg ggccttgaga ctataaagca 960
gtagacaatc cccacatatc atctgtagag ttggggact 998

```

<210> 10

<211> 1326

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1138151.2

<400> 10

```

ccgagagtgc tcgggggtttc ctgcttcaac agtgcttgga cggaaccggc cgctcgttcc 60
ccaccccggc cggccgcccga tagccagccc tccgtcacct cttcaccgca ccctcggact 120
gccccaaagg ccccgccgcc tctccttagt cgcgcgccatg acgaccgagt ccacctcgca 180
ggtgcgccag aactaccacc aggactcaga ggccgccatc aaccgccaga tcaacctgga 240
gctctacgcc tcttacgttt acctgtccat gtcttactac tttagccgag atgatgtggc 300
tttgaagaac tttgccaaat actttcttca ccaatctcat gaggagaggg aacatgctga 360
gaaactgatg aagctgcaga accaacgagg tggccgaatc ttccttcagg atatcaagaa 420
accagactgt gatgactggg agagcgggct gaatgcaatg gagtgtgcat tacatttgga 480
aaaaaatgtg aatcagtcac tactggaact gcacaaactg gccactgaca aaaatgacct 540
ccatttgtgt gacttcattg agacacatta cctgaatgag caggtgaaaag ccatcaaaga 600
attgggtgac caggtgacca acttgcgcaa gatgggagcg ccggaatctg gcttggcgga 660
atatctcttt gacaagcaca ccctgggaga cagtataatg gaaagctaag cctcgggcta 720
atttcccatc agccgtgggg tgacttccct ggtcaccaag gcagtgcagt catgttgggg 780
tttcccttac cttttctata agttgtacca aaacatccac ttaagtctt tgatttgtac 840
cattccttca aataaagaaa tttggtaccc aggtgttgtc tttgaggtct tgggatgaat 900
cagaaatcta tccaggctat cttccagatt ccttaagtgc cgttggtcag ttctaatac 960
actaatcaaa aagaaacgag tatttgtatt tattaaactc attagtttg gcaagtatac 1020
aagggtgtgg tgtcttgga tccagatagaa ctaagggttc ccgactctga atccagagtc 1080
tgagttaaat gtttccaatg gttcagtcata gctttcacag tttttatgaa taaaaggcat 1140
taaaggctga agtagtctgg gattttttatc tattaaagc accatttgat tcaggctgtt 1200
gtaggacatg ttcttcagtg tggacagctg tatggctgtg actggatcag tgtcctgctg 1260
gtgtacacac aggtgaggac ctggctggcg aagcatcccc attaggaagc aggttaggaa 1320
tgtgct 1326

```

<210> 11

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 076047.1

<400> 11

gattgtgggtc ttgatattaa attaatgca cctaaagaaa aaaaaattga ataaagcaat 60

PA-0043 US

tctacatgta	ctaattgtgga	atagctgcc	agatacatta	agtgaaaaaa	atcaaagagc	120
aagacagtgt	aatttttgc	atgaccattt	ttattttgaa	agattatatt	aatgcttgg	180
atgcgtaaaa	tagctctgga	aggattcaag	aaagatctgc	ttgggttac	ctgagaaaag	240
gagttagatg	ttggaaacag	gggtgggagg	aaaattgttt	atattgcata	atgtctttta	300
acgtttggat	tttgtgttgt	ggctaaggta	gtacctatta	gaaataaata	aaattaggta	360
attttaaaaa	ttaaagaaatg	ctgtaaattt	tg			392

<210> 12
 <211> 2159
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 245334.1

cctagctggg	atattggagc	agcaagaggc	tgggaagcca	tcacttac	tgactgaga	60
aagaagacaa	aggccagtat	gcacagcttt	cctccactgc	tgctgctgct	gttctgggg	120
gtgggtgtctc	acagcttccc	agcgactcta	gaaacacaag	agcaagatgt	ggacttagtc	180
cagaaatacc	tggaaaaata	ctacaacctg	aagaatgatg	ggaggcaagt	tgaaaagcgg	240
agaaatagt	gcccagtgg	tgaaaaattg	aagcaaatgc	aggaattctt	tgggctgaaa	300
gtgactggga	aaccagatgc	tgaaccctg	aaggtgatga	agcagcccag	atgtggagtg	360
cctgatgtgg	ctcagtttgt	cctcactgag	gggaaccctc	gctgggagca	aacacatctg	420
acctacagga	ttgaaaatta	cacgccagat	ttgccaagag	cagatgtgga	ccatgccatt	480
gagaaagcct	tccaactctg	gagtaatgtc	acacctctga	cattcaccaa	ggtctctgag	540
ggtcaagcag	acatcatgat	atcttttgtc	aggggagatc	atcgggacaa	ctctcctttt	600
gatggacctg	gaggaaatct	tgctcatgct	tttcaaccag	gcccagggtat	tggaggggat	660
gctcattttg	atgaagatga	aaggtggacc	aacaatttca	gagagtacaa	cttacatcgt	720
gttgcggttc	atgaactcgg	ccattctctt	ggactctccc	attctactga	tatcggggct	780
ttgatgtacc	ctagctacac	cttcagtgg	gatgttcagc	tagctcagga	tgacattgat	840
ggcatccaag	ccatatatgg	acgttcccaa	aatcctgtcc	agcccatcgg	cccacaaacc	900
ccaaaagcgt	gtgacagtaa	gctaaccctt	gatgctataa	ctacgattcg	gggagaagtg	960
atgttcttta	aagacagatt	ctacatgcgc	acaaatccct	tctacccgga	agttgagctc	1020
aatttcat	ctgttttctg	gccacaactg	ccaaatgggc	ttgaagctgc	ttacgaattt	1080
gccgacagag	atgaagtccg	gttttttcaa	gggaataagt	actgggctgt	tcagggacag	1140
aatgtgtctac	acggataccc	caaggacatc	tacagctcct	ttggcttccc	tagaactgtg	1200
aagcatatcg	atgctgctct	ttctgaggaa	aacactggaa	aaacctactt	ctttgttgct	1260
aacaaatact	ggaggtatga	tgaatataaa	cgatctatgg	atccagggtta	tcccaaaatg	1320
atagcacatg	acttttctgg	aattggccac	aaagttgatg	cagttttcat	gaaagatgga	1380
ttttttctatt	tctttcatgg	aacaagacaa	tacaaatttg	atcctaaaac	gaagagaatt	1440
ttgactctcc	agaaagctaa	tagctgggtc	aactgcagga	aaaattgaac	attactaatt	1500
tgaatggaaa	acacatggtg	tgagtccaaa	ggaggtgttt	tcttgaagaa	ctgtctat	1560
tctcagtc	ttttaacctc	tagagtcact	gatacacaga	atataatctt	atttatacct	1620
cagtttgc	atttttttac	tatttagaat	gtagcccttt	ttgtactgat	ataatttagt	1680
tccacaaatg	gtgggtacaa	aaagtcaagt	ttgtggctta	tggattcata	taggccagag	1740
ttgcaaagat	cttttctaga	gtatgcaact	ctgacgttga	tcccagagag	cagcttcagt	1800
gacaaacata	tccttttcaag	acagaaagag	acaggagaca	tgagtctttg	ccggaggaaa	1860
agcagctcaa	gaacacatgt	gcagtcactg	gtgtcaccct	ggataggcaa	gggataactc	1920
ttctaacaca	aaataagtgt	tttatgtttg	gaataaagtc	aaccttggtt	ctactgtttt	1980
aaaaggatat	gtttgtcact	gaagctgctc	tctgggatca	acgtcagagt	tgcatactct	2040
agaaaagatc	tttgcaactc	aggcctatat	gaatccataa	gccacaaact	tgactttttg	2100
tacacacaat	ttgtggaact	aaattatatt	agtacaaaaa	gggctacatt	ctaaatagt	2159

<210> 13
 <211> 2519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 349727.2

PA-0043 US

<220>

<221> unsure

<222> 104, 110, 114, 131

<223> a, t, c, g, or other

<400> 13

```

cggctcctct ttgcagaggg ggaaactctt gggctgagag caggaataat gcggtaggca 60
aggcgggctg ctggctcccc cggctccggc agcagcggcg gcancgccan cagnggcagt 120
agcagcggca ncattcccag gcgctgacag ccccgccggc cggctccggt gctgaccgcc 180
gactgtcaat ggagctggaa aacatcgttg ccaacacggg cttgctgaaa gccagggaag 240
ggggcggagg aaagcgcaaa gggaaaagca agaagtggaa agaaatcctg aagttccctc 300
acattagcca gtgtgaagac ctccgaagga ccatagacag agattactgc agtttatgtg 360
acaagcagcc aatcgggagg ctgcttttcc ggcagttttg tgaaaccagg cctgggctgg 420
agtgttacat tcagttcctg gactccgtgg cagaatatga agttactcca gatgaaaaac 480
tgggagagaa agggaaggaa attatgacca agtacctcac cccaaagtcc cctgttttca 540
tagcccaagt tggccaagac ctggtctccc agacggagga gaagtccta cagaagccgt 600
gcaaagaact cttttctgcc tgtgcacagt ctgtccacga gtacctgagg ggagaacct 660
tccacgaata tctggacagc atgttttttg accgctttct ccagtggaa tggttgaaa 720
ggcaaccggg gacaaaaaac actttcaggc agtatcgagt gctaggaaaa gggggcttcg 780
gggaggctcg tgcctgccag gttcgggcca cgggtaaaat gtatgcctgc aagcgcttgg 840
agaagaagag gatcaaaaag aggaaagggg agtccatggc cctcaatgag aagcagatcc 900
tcgagaaggt caacagtcag tttgtggtca acctggccta tgacctagag accaaggatg 960
cactgtgctt ggtcctgacc atcatgaatg ggggtgacct gaagttccac atctacaaca 1020
tgggcaaccc tggcttcgag gaggagcggg ccttgtttta tgccggcagag atcctctgcg 1080
gcttagaaga cctccaccgt gagaacaccg tctaccgaga tctgaaacct gaaaacatcc 1140
tgttagatga ttatggccac attaggatct cagacctggg cttggctgtg aagatccccg 1200
agggagacct gatccgcggc cgggtgggca ctgttggtta catggctcca gaggtcctga 1260
acaaccagag gtacggcctg agccccgact actggggcct tggctgcctc atctatgaga 1320
tgatcgaggg ccagtcgccc ttccgcggcc gcaaggagaa ggtgaagcgg gagggaggtg 1380
accgcgggt cctggagacg gaggaggtgt actcccacaa gttctccgag gaggccaaagt 1440
ccatctgcaa gatgctgctc acgaaagatg cgaagcagag gctgggctgc caggaggagg 1500
gggctgcaga ggtcaagaga cacccttctc tcaggaacat gaacttcaag cgcttagaag 1560
ccgggatgtt ggaccctccc ttcgttccag acccccgcgc tgtgtactgt aaggacgtgc 1620
tggaacatga gcagttctcc actgtgaagg gcgtcaatct ggaccacaca gacgacgact 1680
tctactccaa gttctccacg ggctctgtgt ccatcccatg gcaaaacgag atgatagaaa 1740
cagaatgctt taaggagctg aacgtgtttg gacctaattg taccctcccg ccagatctga 1800
acagaaacca ccctccgga cgcaccaaga aagggtgctc ccagagactc ttcaagcggc 1860
agcatcagaa caattccaag agttcgccca gctccaagac cagttttaac caccacataa 1920
actcaaacca tgtcagctcg aactccaccg gaagcagcta gtttcggctc tggcctccaa 1980
gtccacagtg gaaccagccc agacccttct ccttagaagt ggaagtagtg gagccccctg 2040
tctggtgggg ctgccagggg agaccccggg agccggggaa ggaggccgtc catcccgtcg 2100
acgtagaacc tcgaggtttc tcaaagaaat ttccactcag gtctgttttc cgaggcggcc 2160
ccggccgggg tggattggat ttgtcttttg tgaacattgc aatagaaatc caattggata 2220
cgacaacttg cacgtatttt aatagcgtca taactagaac tgaattttgt ctttatgatt 2280
tttaaagaaa agttttgtaa atttctctac tgtctcagtt tacattttgt atatttgat 2340
ttaaatgaaa gtgagacttt gaggggtgat attttctgtg cagccactgt taagccatgt 2400
gttccaaggc atttttagcg ggaggggggt atcaaaaaaa aaaaaatgtg actcaagact 2460
tccagagcct caaatgagaa aatgtcttta ttaaatgtag aaagtgatcc ataaaaaaa 2519

```

<210> 14

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 403456.1

<400> 14

```

gaagatacaa aaagaaacaa gtagatgagc aaatgagaga caacagtcct gtgcatcttc 60
agtacagcat gtatggccat aaaaccactc atcacactac tgaaagaccc tctgcctcac 120
tctatgaaca gcacatggtg agccccatgg ttcattgtcta tagaagtcca tcctttgggtc 180

```

PA-0043 US

caaagcatct	ggaagaggaa	gaagagagga	atgagaaaga	aggaagtgat	gcaaaacatc	240
tccaaagaag	tcttttggaa	caggaaaatc	attcaccact	cacaggggtca	aatatgaaat	300
acaaaaccac	gaaccaatca	acagaatttt	tatccttcca	agatgccagc	tcattgtaca	360
gaaacatttt	agaaaaagaa	agggaacttc	agcaactggg	aatcacagaa	tacctaagga	420
aaaacattgc	tcagctccag	cctgatatgg	aggcacatta	tcctggagcc	cacgaagagc	480
tgaagttaat	ggaaacatta	atgtactcac	gtccaaggaa	ggatttagtg	gaacagacaa	540
aaaatgagta	ttttgaactt	aaagctaatt	tacatgctga	acctgactat	ttagaagtcc	600
tggagcagca	aacatagatg	gagagtttga	gggctttcgc	agaaatgctg	tgattctgtt	660
ttaagtccat	accttgtaaa	taagtgcctt	acgtgagtgt	gtcatcaatc	agaacctaa	720
cacagcagta	aactatgggg	aaaaaaaaag	aagaagaaaa	gaaactcagg	gatcactggg	780
agaagccatg	gcattatctt	caggcaatct	agctctgtcc	aaataaaata	aatccttgca	840
tgtaaatcat	tcaagggtta	tagtaatat	tcatatactg	aaaagtgtct	cataggagtc	900
ctcttgcaca	tctaaaaagg	ctgaacattt	aagtatcccg	aattttcttg	aattgctttc	960
cctatagatt	aattacaatt	ggatttcatc	atttaaaaac	catacttgta	tatgtagtta	1020
taatatgtaa	ggaatacatt	gtttataacc	agtatgtact	tcaaaaatgt	gtattgtcaa	1080
acatacctaa	ctttcttgca	ataaatgcaa	aagaaactgg	aacttgacaa	ttataaatag	1140
taatagttaa	gaaaaaatag	aaaggttgca	attatatagg	ccatgggtgg	ctcaaaactt	1200
tgaacatttg	agcttaaaaca	aatgccactc	tcatgcattc	ttaaattaaa	agttaaaatg	1260
attaatagtt	caggtggaag	aaataagcat	actttttggg	ttttctacac	attttgtgta	1320
gacaattttta	atgtcagtcg	tgctgtgaac	taaagtatgt	catttatgct	caaagttaa	1380
ttcttcttct	tgggatattt	taaaaatgct	actgagattc	tgctgtaaat	atgactagag	1440
aatatatattg	gtttgcttta	tttcataggc	tttaattctt	gtaaatctga	atgaccataa	1500
tagaaataca	tttcttgtgg	caagtaattc	acagttgtaa	agtaaatagg	aaaaattatt	1560
ttattttttat	tgatgtacat	tgatagatgc	cataaatcag	tagcaaaagg	cacttctaaa	1620
ggtaagtgg	ttaagttgcc	tcaagagagg	gacaatgtag	ctttatttta	caagaaggca	1680
tagttagatt	tctatgaaat	atttattctg	tacagtttta	tatagttttg	gttcacaaaa	1740
gtaattattc	ttgggtgcct	ttcaagaaaa	tt			1772

<210> 15

<211> 1199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1089210.1

<400> 15

aaggaaacag	gatctgctta	gtgaaagaag	tggcaagcaa	tggatcccaa	atatcagcgt	60
gtagagctaa	atgatgggtca	cttcatgccc	gtattgggat	ttggcaccta	tgcacctcca	120
gaggttccga	ggaacagagc	tgtggagggtc	accaaattag	caatagaagc	tggcttccgc	180
catattgatt	ctgcttattt	atacaataat	gaggagcagg	ttggactggc	catccgaagc	240
aagattgcag	atggcagtg	gaagagagaa	gacatattct	acacttcaaa	gctttggtgc	300
actttctttc	aaccacagat	ggtccaacca	gccttggaag	gctcactgaa	aaaactttaa	360
ctggactatg	ttgacctcta	tcttcttcat	ttcccaatgg	ctctcaagcc	aggtgagacg	420
ccactaccaa	aagatgaaaa	tggaaaagta	atattcgaca	cagtggatct	ctctgccaca	480
tgggaggtca	tggagaagtg	taaggatgca	ggattggcca	agtccatcgg	ggtgtcaaac	540
ttcaactgca	ggcagctgga	gatgatcctc	aacaagccag	gactcaagta	caagcctgtc	600
tgcaaccagg	tagaatgtca	tccttacctc	aaccagagca	aactgctgga	tttctgcaag	660
tcaaaagaca	ttgttctgg	tgcccacagt	gctctgggaa	cccaacgaca	taaactatgg	720
gtggacccaa	actccccagt	tcttttggag	gacccagttc	tttgtgcctt	agcaaagaaa	780
cacaaacgaa	ccccagccct	gattgcccctg	cgctaccagc	tgcagcgtgg	ggttgtggtc	840
ctggccaaga	gctacaatga	gcagcggatc	agagagaaca	tccaggtttt	tgaattccag	900
ttgacatcag	agggatatga	aagttctaga	tggctaaac	agaaattatc	gatatttgt	960
catggatttt	cttatggacc	atcctgatta	tccattttca	gatgaatatt	agcatagagg	1020
gtgttgacag	acatctagca	gaaggccctg	tgtgtggatg	gtgatgcaga	ggatgtctct	1080
atgctggtga	ctggacacac	ggcctctggt	taaatccctc	ccctcctgct	tggcaacttc	1140
agctagctag	atatatccat	ggtccagaaa	gcaaacataa	taaattttta	tcttgaagt	1199

<210> 16

<211> 472

<212> DNA

PA-0043 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 074723.1

<220>

<221> unsure

<222> 47

<223> a, t, c, g, or other

<400> 16

```
aacaaagaca atatattttt gttttttttt tattatgagc atatganttt ttgacaggct 60
gtttcctcgt cgtatagatt ttttccaatc aaacctactt tttccatact ctgtgcatat 120
tttttgtgaa gttatacaca ttgaagaccc taaaaatccc agtccatcat tcagcttacc 180
tctgcgaact tctatctggg attgaatcag tttcagaaac acagacagat ccaaggaaat 240
gtctctttat aatgttctta ggatggacta gaccataaaa tgtgccatga atcaaaatat 300
taataatttg aaagctttca tgctgttagc ccctgatgaa attctcagca ttaactggcc 360
agctcctctg atttctgcag catcgcaaca gggtcgaaga tgggttggtg ctgggtattc 420
cctcccatgg tgtttcctct gggatgctct tcattatctc aatgcctgta cc 472
```

<210> 17

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 143528.1

<400> 17

```
gtcaaaagtg aatatatctc tgtgtaaata ggcatttttc ccttttttgc ttttaaacad 60
tttgtgtagg ggaggaaaat attacattga atgggtgaata ccaaactggc ctgttaatat 120
tggtgtgggt tgtttttaat cctaaaagat gctaccagat ctcagtaact ttacaaaatt 180
atgtcagctt aattttaaca tgatagtctc aaattatagt aagcaggcac atttcttgca 240
tgaacaagag taaataaatg tactttcata agacaccagt gtcttgcaaa ctgtcaatca 300
tgttaaatgg aatgaatcct tttatacctg gcatgaaaaa gattgtagaa agttgtatat 360
ttcaactgaa gatcttttaa aaata 385
```

<210> 18

<211> 819

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 224889.1

<400> 18

```
tttgatgttt acattgcctc taactcggtg cctcagatac ctctgtgacc aaatttgtct 60
ccaaccacat agctcatttc ctataatggt atatccatag gaagccctca cagagacact 120
aacacagcta aagatcttct gatattatca gcaagggatg caaggacttt attggaatct 180
ggagagttaa actgccttct cttgggtctc tcacttactt cttatgaagt tggcattacc 240
tgagactcct agctgtgatt aggtacaagc ttacctttta gggtagaaaa agaaagatca 300
tttgaaaaat gtatctaaaa taatccagag aacataatgt ttgtcttggt ctgataatga 360
taagaagtca aggattggca gagaaaatac taaacgccaa gagttgagcc tgtgggtctc 420
tccataagag ttttaaaact cttgccagtt accactttat ccaatttgct atcattttcg 480
tattatcagc tatcgccctg taaaatatcc aaaactagct atttctaaag taaacatttt 540
atctgttact ttttaaccaga taggtgtctt tgtcatcctt ctactataaa ttgttctttg 600
ccaacctgta caggtagatg aaccaggcga gagttttaat cagccttttc ttgtcccctt 660
tgtaagaaag agatgcttgc catagagaag gacatgagta cattagaaat aatttaatat 720
ccacaatatg atgttcttta agctgcaaat tgagtacact gggaatcaac acatttgatg 780
```

PA-0043 US

aaggctgtct gtctcttcac cagtggagtg agtgcagca

819

<210> 19
<211> 1990
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 403676.1

<220>
<221> unsure
<222> 1611, 1959
<223> a, t, c, g, or other

<400> 19
gttaaggatg ttttcattta tgtttatttg tgacactggg gtatggcact cttttcctgt 60
gagctcttgc gtgactttga tatgagggtg atgccagttc tgtaaatggg ctggaaagtc 120
ttccctcctc tcttcttggc tgaaagagct ttcaaaatat ttgatagaat tcaccagtga 180
agatatctgg gctttggcat ttctttttga gaagggtttt caatttctga cttagtccac 240
agttctcttc aggtttttcca gttaatttgg gtcagttttg gcaatttcta tctctgcacg 300
aattggctct ttttatccaa gtggctctaac ttattggctt cagggtttttc agagtattca 360
cttataatgt tttttaactt cctaagggtc attagtata atctctcttt tgttcacaat 420
tttggttaatt tatcttattt ctcataatct cttttttcac tgttgggtcaa gaaaacagac 480
agaggcagca gatggagatg tgacagattc tctagtggga aggctttgat cataatacct 540
ggcaagccag aatgatgccg gcaaccccaa aggagctgcc aatggatctt gacaggaaaa 600
tcaatgactc tggattgggc tatgctcaac caggggtaga tgtcaatgct tcaagggtca 660
tacaagaacc agaaaagaag agattgcacc aatttggact gccgagtcac acttctttac 720
acaagaaaac acactttaca gcctcaaatg gccacaatg cagagggaca tgtcctcctc 780
aggggaaaaa ttgatagaaa attgaaatgg tcaattgaaa cattgtttgt ctaaaaactg 840
ccaatctaatt tgttgggcaa tataaacatg aaggactggc ttttataatc tcatgaatgt 900
gctcgctgtc aacatgagtg gggctgcaag aataactcca ctaggtagca tctctctctt 960
tacctgatgg atcaggacga tgctgttatg acgatacata caattcttct gaagaggaga 1020
ggatgctgga ataaagacta cacttcacct caaatttatt ttttcatatg ttatgccata 1080
gtaccaggaa tagggatgta aataaaagt ccagaaacag gaattatccc taagcgaaaa 1140
accataacta tatttttata cttttatgta agaattctca agtattcatt tcatctggaa 1200
aagttaggat taacagtaag tagagttata tagcctgggt gtctgatagc cccactagt 1260
tccttaccta tataacctac cctctatgat caagactaga ctgagggaag acatgctaga 1320
atactattgc tgctgcagt ctaggccagc ccagcagaca aacctaattg cactcccaa 1380
cctggaaaca actgatataa agggacagag ggaggaaatg tggctgagg taagtataa 1440
atcaaagggg tatataatga gaaaattcaa tattagctta actcctcaa ggtggtgtga 1500
gcaagagaag atattgtcac ttaggtcaat tatacgggat gcctaaaaga gtgaagctgt 1560
atgtccctga gaccatcctt gtttttggaa cctggtaaga ttgagtgttg ntcagcaaag 1620
ctgagtgatt tcattctggg agacatatc atacaagagg atgataaact ggcctaattt 1680
tgaatgaatg gatgagactc tgataatatg ccaatacctc tttactgtta caatcctttt 1740
tcctgtaaaa gatagtggg caaagaaaag tgggcaatct gagttatcac aaaaacattt 1800
agtctttgtc cctggtttct cctaaaaacc ttagactctc ttgagtata agagtgtctt 1860
tagagtactg atgagaagac tcttggctga gtggatcctg gatattctaa gaacgggtggc 1920
tagctgccag agacacatac ctgtgatgcg agggttatnt ttttccattt tgtgttgcta 1980
taaagaaatg 1990

<210> 20
<211> 313
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1394227.1

<400> 20

PA-0043 US

```
ctcctcggct ttagacagagt gcaagacgat gacttgcaaa atgtcgcagc tggaacgcaa 60
catagagacc atcatcaaca ccttccacca atactctgtg aagctggggc acccagacac 120
cctgaaccag ggggaattca aagagctggt gcgaaaagat ctgcaaaatt ttctcaagaa 180
ggagaataag aatgaaaagg tcatagaaca catcatggag gacctggaca caaatgcaga 240
caagcagctg agcttcgagg agttcatcat gctgatggcg aggctaacct gggcctccca 300
cgagaagatg cac 313
```

<210> 21
 <211> 876
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 989871.11

```
<400> 21
gtctttcaga agacctggta agtgggactg tctgggttgg ccccgcaactt tgggcttctc 60
ttggggaggg tcagggaagt ggagcagcct tcctgagaga ggagagagaa agctcagggg 120
ggtctggagc aaagatactc ctggagggtg ggagtgaggc agggataagg aaggagagta 180
tcctccagca ccttccagtg ggtaagggca cattgtctcc taggctggac ttttcttgag 240
cagagggtgg ggtggtaagg aaagtctacg ggccccgtgt gtgtgcacat gtctctgtgt 300
gaatggaccc tcccccttcc cacacgtgta tccctatcat cccacccttc ccaccagagc 360
catagccatc tgctggtttg gttatttgga gagtgcaggc caggacaagg ccatcgcttg 420
gggcatgaat cctctgcgta ctgccctggc cagatgcaaa ttccttgcca tgggattccc 480
cagaaggttc tgtttttcag gtggggcaag tccgtgggca tcatgttgac cgagctggag 540
aaagccttga actctatcat cgacgtctac cacaagtact ccctgataaa ggggaatttc 600
catgccgtct acagggatga cctgaagaaa ttgctagaga ccgagtgtcc tcagtatatc 660
aggaaaaagg gtgcagacgt ctggttcaaa gagttggata tcaacactga tgggtgcagtt 720
aacttccagg agttcctcat tctggtgata aagatgggcy tggcagccca caaaaaaagc 780
catgaagaaa gccacaaaga gtagctgagt tactgggccc agaggctggg cccctggaca 840
tgtacctgca gaataataaa gtcatcaata cctcaa 876
```

<210> 22
 <211> 2138
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 333958.2

```
<400> 22
ccctaggaca cctttctaaa aagactccct gtggtgttca gaatcactcc tacagtcagg 60
ttctccacaa tggatctcag tgctgcaagt caccgcatac ctctaagtga tggaaacagc 120
attcccatca tcggacttgg tacctactca gaacctaaat cgacccttaa gggagcctgt 180
gcaacatcgg tgaaggttgc tattgacaca gggtagcgac atattgatgg ggcctacatc 240
taccaaaatg aacacgaagt tggggaggcc atcagggaga agatagcaga aggaaagggtg 300
cggagggaag atatcttcta ctgtggaaag ctatgggcta caaatcatgt cccagagatg 360
gtccgcccaa ccctggagag gacactcagg gtcctccagc tagattatgt ggatctttac 420
atcattgaag taccatggc ctttaagcca ggagatgaaa tataccctag agatgagaat 480
ggcaaatggt tatatcacia gtcaaatctg tgtgccactt gggaggcgat ggaagcttgc 540
aaagacgctg gcttggtgaa atccctggga gtgtccaatt ttaaccgcag gcagctggag 600
ctcatcctga acaagccagg actcaaacac aagccagtca gcaaccaggt tgagtggcat 660
ccgtatttca ccagccaaa actcttgaaa ttttgccaac aacatgacat tgtcattact 720
gcatatagcc ctttggggac cagtaggaat ccaatctggg tgaatgtttc ttctccacct 780
ttgttaaagg atgcacttct aaactcattg gggaaaagggt acaataagac agcagctcaa 840
attgttttgc gtttcaacat ccagcgagggt gtggttgtca ttcctaaaag ctttaatctt 900
gaaaggatca aagaaaattt tcagatcttt gacttttctc tactgaaga agaaatgaag 960
gacattgaag ctttgaataa aaatgtccgc tttgtagaat tgctcatgtg gcgcgatcat 1020
cctgaatacc catttcatga tgaatactga ctgcagggag ttctgaaca gatttttcac 1080
tcccacgagt gccaaagacg tgcaatgggt agtcccctag atgtgaaaat gaagagagag 1140
```

PA-0043 US

```

ggtttttacca tcttgagaag aaataatgat ggaaacatgt ttaatgtttg tgcagtgtaa 1200
atgacttttga ctcagtcaca ttgaagtaaa aatattaaaa tctgttgaaa taactcttag 1260
gaaattatca actaattttt tcagatcagt atcttctaga ttccagacag aaaaaatta 1320
cacttcagaa aagacatcaa aggcaacata tgacaacaag taatttatga atctgggtag 1380
tagcgttggt aatctgagtt ctttaagggt tcacaggaca acgaagtgca tgtggcagtg 1440
tgctggcagtg ggccttgagg ctttggaacca ttggttacaa aacagacaca gccaaagata 1500
gatccacaca cacattatta acaagggaagt gatttgctgc accttgagtt gagaggacta 1560
catgtagaaa agtcttaaaa tagagctaaa caccacagtg gtcaacaaag ccatcataat 1620
gttgggtgttt gtttccctcc aatgtatgta tgttttagtt ttatccaacc tgaggaatga 1680
aaacttaact ggatctctct tgcacctta aagggcctga gtctcaacat ggctgctgat 1740
ccatacttac acatcttact gtcaatcttg cctacattga ttatagaacc actattacgt 1800
gaaaaggctt gaaacaacca acatatacaa ataaaaacct gccttgtaaa atagtaaaag 1860
agaagccata tattggcttt tcttcttaac ttgggagata tattgaaaca aggtgcttta 1920
taagattatt gtacttaaga ctttaatagt gttacttggg tagcttatat gaattttgag 1980
aattttatat gaattttgag aaagcaagtt caaaagaact ctggtaattt tctgttatgt 2040
acaatttaaa gagtgaataa gattattaga attcagcaat agagatatat ctattttcaa 2100
ttcaactaca gaaatatatt ttattggccg ggtgcggt 2138

```

<210> 23

<211> 970

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 022638.1

<400> 23

```

ggagtggctg agatctgctg atccccctct cactccactg caaccaccca gagccatggc 60
tccccgagge tgcategtag ctgtctttgc cattttctgc atctccaggc tctctgctc 120
acacggagcc ccagtggccc ccatgactcc ttacctgatg ctgtgccagc cacacaagag 180
atgtggggac aagtctctacg accccctgca gcactgttgc tatgatgatg ccgtcgtgcc 240
cttggccagg acccagacgt gtggaaactg caccttcaga gtctgctttg agcagtgctg 300
ccccctggacc ttcatggtga agctgataaa ccagaactgc gactcagccc ggacctcgga 360
tgacaggctt tgtcgcagtg tcagctaatt gaacatcagg ggaacgatga ctctggatt 420
ctccttctct ggtgggcctg gagaaagagg ctggtgttac ctgagatctg ggatgctgag 480
tggtggtttg ggggcccagag aaacacacac tcaactgccc acttcattct gtgacctgtc 540
tgaggccccc cctgcagctg ccctgaggag gccacagggt ccccttctag aattctggac 600
agcatgagat gcgtgtgctg atggggggccc agggactctg aaccctctct atgacctcta 660
tggccaacat caaccgggca ccacccaag gctggctggg gaacccttca cccttctgtg 720
agattttcca tcatctcaag ttctcttcta tccaggagca aagcacagga tcataataaa 780
tttatgtact ttataaatga atgctgtaga attcatgaat tagagagctt ggactgttga 840
aaggggtcac agagggtgac gtggggcccc ttctctctgt caccctgagg catctgggcc 900
tttccatttg ttctgttctg gcacacactt attttctctt tttccattta tttttaaaaa 960
aaaaaaaaaa

```

<210> 24

<211> 1472

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 406238.1

<400> 24

```

aggctccagt ggaaaaacct cgtcaccaga gaaagcccaa catattttat agtggcccag 60
cttctctctg aagaccaaga taccgattat cttccgcagg accaagaagt ccttactgta 120
aacgaatgaa caggcgaagg catgcaatcc acagtagtga ctgcacttca tcttctcct 180
ctgaagatga acaacacttt gagaggcgga ggaaaaggag tcgtaatagg gctatcaata 240
ggtgcctccc actaaatttt cggaaagatg aattaaaagg catttataaa gatcgaatga 300
aaattggagc aagccttgcc gatgttgatc caatgcaact agattcttca gtacgatttg 360

```

PA-0043 US

```

atagtgtcgg tggcctgtct aatcatatag cagctctaaa agagatgggtg gtgtttccat 420
tactttatcc agaagtcttt gaaaaattta aaattcaacc cccaagaggt tgtttgtttt 480
atgggccacc tggaaactgga aagactctgg ttgccagagc acttgccaat gagtgcagtc 540
aaggggataa aagagtagca tttttcatga ggaaagggtgc tgattgtcta agtaaattggg 600
taggagaatc tgaaagacag ctacgattgc tgtttgatca ggcctatcag atgcgcccat 660
caattatttt ttttgacgaa attgatggtc tggctccagt acggtcaagc aggcaagatc 720
agattcacag ttctattgtt tccaccctgc tagctcttat ggatggattg gacagcagag 780
gggaaattgt ggtcattggg gctacgaaca ggctagattc tatagatcct gctttacgaa 840
ggcctgggtcg ctttgataga gaattcctct ttagcctgcc tgataaagag gtaagaattt 900
aatgtcactc aaattttgac aaaatatatt gctgtttatt aataataagt cttggtatag 960
taaaaatttg gagattcttg agttttgtat catgggtcttg tcaaatagata gtaaacaaact 1020
caaattggga caaattttta ttcttttctt taaaatataa taatgccttc ccagaagtga 1080
ctcttaaaat tattttcaatt tgagtgtagc ctttggatgt tctaagtgtt gcttcagaac 1140
atatggctta atgagtaatc aaatccttag ccagtttgtt agccttgtct ttttcatgaa 1200
tatcatcata taatcctacc gagttttttt aagtctactt aatcttctgg gaaccaaaga 1260
ggaaaatatg tcaagagctg tctgtactct taaaaacagc tcttaatatg caccagaatg 1320
aatagctact ttagtagtta cttttctctt atttgtgttt atgacgaata taactttagt 1380
gctataaatg caaatatgtt taataatgag acttaagttc attaaactct taaaagtaca 1440
tcctttttct tatttttact ttcatatttt gc 1472

```

<210> 25

<211> 1226

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 373516.1

<220>

<221> unsure

<222> 1215

<223> a, t, c, g, or other

<400> 25

```

tctggccctg gtatgaggat ctgagctctgt agatgtctga ggaggtggga tctggtacag 60
gtgtgaggat ctgggtccgt tcatgtctga ggaggtagga tttggtacac atactagttt 120
cttgggtctgc ccacatctga ggaggtagga cctggccctg gtatgaggat ctgggtctct 180
tcatgtctga ggaggtagga tctggcatga gtatgaggat ctgggtctgt ccatgtctgg 240
ggaagtagga tttggcgcag atataagcat ctgggtcttt taatgtctgc gaaggtaggc 300
tctggccttg gtatgaggat ctgggtctgt caatatctga ggaggaatga atctagtaca 360
ggtatgagga tctgggtctc tccatgtctg agaagggttg ctgtggtaca ggtatgagga 420
tctgggtctg tcagtgtctg aggaggtagg atttggctct gttttgagga tctgggtcta 480
tccatgtctg aaatggtagg atctggccca ttaggatttt gaggatctgg gtctgtcagt 540
atctgaagag gtagtatctg ggtgcgggta taaggatctg tatctgtcag tatctgagga 600
ggtaggatct ggccatggta tgaggatctg agtctgtcaa tttctgagga ggtaggatct 660
ggtacaggta tgaggatctt ggtctgtcca tgtctgagga ggtagtatct ggcacagata 720
taaggatctg ggtctgttca tgtctcagga ggtaggacgg cgcaattata gggatctggg 780
tctatcagtg tctgagaatg taggatctgg cccttgtatg aggatctggg tctttcagta 840
tctgaggagg taggatctgg tacaggatg aggatctggg tctctccatg tgtgagaagg 900
tagaaatctg gtacagatac aaggatctgg gtctgttcat gtaggatcat gtctgaggag 960
gtaggatttg atgcaggat taggatctgg gtctgtccat gtctgaggag gtgggatctg 1020
gcacaaatag aaggatctgg atctgtcaat gtctgagaag gtagtatctg gccctggtat 1080
gatgatctgg gtctttcagt atctgaggag gtaggaatct agtagagga cgaggatcag 1140
ggtctctcta tgtctgtgga ggtaggaatc tgttacaggc atgaggatct gtgtctgtca 1200
gggtgttagg ctcanctctg aaaaaa 1226

```

<210> 26

<211> 2120

<212> DNA

<213> Homo sapiens

PA-0043 US

<220>
 <221> misc_feature
 <223> Incyte ID No: 027830.2

<220>
 <221> unsure
 <222> 530, 532
 <223> a, t, c, g, or other

<400> 26
 ctatttttggt tgtagtattg tggaaacagtc ttgtttatgga gtgccagctt agaggttggt 60
 gcaaacttgt ctagaagtga gagcatgggt ttttttagcc ctttgagagt ctacatctaa 120
 tgaacattct tgctcaccca taaataacgt caagcctcaa tgtcacccgtc acgttgggat 180
 actctttctc atctggcatc ctagacagga caaggttggt tacctttcct tccatgaacc 240
 atgaacctgt gacggcatca ttcacacctga cttcaccaag ctcgcctgt gggtagggcc 300
 agagctccca ctggcaattt ttagaagagc cagaggtccc tgcttcctct agaaataaca 360
 gttcaggggtg aagcatggag ggtttcagtt cccagacaat ggaaccattt agagacaaca 420
 cagttggaca tttccacttt ttccttgatt cctggaagtc cagtgggttc tgcagctgaa 480
 aaagccctgg gtcccagcag cagagagaca ggacagaggg gatgcttggg cngggaagga 540
 cggtaacctg cagaacagat tccattttat agaacgagta cacgtttgct aaaacagtc 600
 tgctttccca gacatggatt cccaccacag ggacagtcgg aactcaggac tagctccagc 660
 gacatctttc ctccgaattc aagccttcta tcacaatgtc aaaacagcta tttataaagc 720
 cattttcatt gtacttgata acagcacgag tcccaaaact tttagaaata aaataggaca 780
 ttggcttgat tgaaaagagg gactttttaa aaattgttct ttcgtcagaa gccttttgga 840
 tgacttacaa tagctctgat gaagatacca cccacgcgtc agtccaatag gtcagtgagt 900
 ttcaacaggc atccatccct cccatgaagg gattctgggt atgggaagtt tctgtaatga 960
 caggaaagca ttgacctca ttgattgtca acttttggtat tagccatgaa agacaggatg 1020
 ctcatgggtt gttctgtaga gtgaggatg ctgcctattc cctcccagaa tgtctgacct 1080
 aggggtgtgg gttgaggagc cctgggggaa atggaccaag ttttcccaaa gagcagtatt 1140
 aggtgaaga gcaggtgact ggtaggcccc agctcccatc attccctccc aaagccattt 1200
 tgttcagttg ctcatccacg ctggattcca gagagttttc caatttgagg agccatgaga 1260
 aagggtttta aatcttgagg agatggagag agggacatag gatagttgac tccaacatga 1320
 caggaaagagg ctggagattg ggaattggcc atcaaccaag cctgtagtag taaagccatg 1380
 gtcccgcatt ggaattactt ggggaactta tacagttctg ataccagggc tctcctagac 1440
 cagttcaacc aattctaggt gggggactca ggcacagtg tgtttcgtag ctccccgggt 1500
 gttttccctg tgcagccgag cttgggaaac tgccatgctt tttggatgtc aaggcgctgt 1560
 tggaggctgg gtgtgacagc acagagccag gttgtctgt ggaaaccaca gccacgggtt 1620
 tggcactggc tcagcatggc ctcactgcca gtcccagcct ggctgaggga caagatgggt 1680
 tctcttgagg gttcctgagt ggagcaccct tccaggcttt ttgaaagcca gctgatctgt 1740
 ggagccttgt taagggactc aatacgggtg ttggatattg atgtttttcc ttgagactgt 1800
 cttgtccatc aataaagatg gaggatgtct cctctttgaa ccccgcttcc ccaccagtac 1860
 tctctctccc ttagagttta tgagttattc aaggaggaga cttcttaaag acagcaacgc 1920
 aattcttgta acttggtgaa atagcccat ctttcagagt gataccattt ctacatttga 1980
 taatgcctgt attcctgtag gatgtatata gtttagggga tttttttttt gtttggtttt 2040
 gtttttttaga agtcaatatg tctggtttta tttattgctt gaaaaagatc atttgaaaaa 2100
 aataaataca ttttcaacca 2120

<210> 27
 <211> 2968
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1097722.6

<400> 27
 gtgactcctc ctttcccccg ccccgccctcc gttcggagag ccggtcgggc gggcgctct 60
 cggccaggta cgcggccggc tgggataggg gtcgcgggcg ggctttgggt gcgcagcagc 120
 cggctctccc cggaggaagc gcctcttgga cgcgtgtgac cgatgccagc attgcacgac 180
 cacttctgga gctgctcctg tgcgcacagc gcgaggcgcc gaggcccccc gcgagccagc 240
 gccgcggggc tggcggccaa ggttggggag atgatcaacg tttccgtgtc cgggccttcc 300

PA-0043 US

```

ctgctggcgg cccacggtgc cccggacgct gaccccgcg ccaggggccc cagtgtctgcg 360
atgagcgccc ccgagcccg cagcccccac cccaacacct ggcacatcgc cctgttgacg 420
aggagcctcg tgctcttctc gggtgggggtg gtcctagccc tgggtgtcaa cctgtgtcag 480
atccagagga atgtcactct cttccccgag gaggtgatcg ccaccatctt ttcctccgcc 540
tgggtgggtcc ctccctgctg cgggacagca gctgctgttg ttggcctact gtaccctctg 600
atcgacagtc acctcggaga accccacaaa tttaagagag aatggggccag tgtcatgcgc 660
tgcatagcag tttttgttgg cattaaccac gccagtgtca aattggattt tgccaataat 720
gtccagctgt ccttgacttt agcagcccta tctttgggcc tttgggtggac atttgatcgt 780
tccagaagtg gccttgggct ggggatcacc atagcttttc tagctacgct gatcacgcag 840
tttctcgtgt ataagtgtgt ctacagtat acatccccag atttcctcta tattcgttct 900
tggctccctt gtatattttt ctacaggagg gtcacggtgg ggaacatagg acgacagtta 960
gctatgggtg ttcttgaaaa gccccatagt gattgagtct tcaaaaccac cgattctgag 1020
agcaaggaag attttggaag aaaatctgac tgtggattat gacaaagatt atcttttttc 1080
ttaagtaatc tatttagatc gggctgactg tacaatgac tcctggaaaa aactcttcac 1140
ctagtctaga ataggagggt ggagaatgat gacttaccct gaagtcttcc cttgactgcc 1200
cgactggcg cctgtctgtg ccctggagca ttctgcccag gctacgtggg ttcaggcagg 1260
tggcagcttc ccaagtattc gatttcattc atgtgattaa aacaagttgc catatttcaa 1320
agccttgaac taagactcaa ttaccaaccc gcagttttgt gtcagtgtcc aaaggaggta 1380
ggttgatggg gcttaacaaa catgaagtat ggtgtaatat gaataatatt tatccaaaag 1440
atttttaaaa atagggtgt gttaaaaaaa caaaaaagc agcagtgtat 1500
atagagaggt cacactctaa gtgggtgcgc ggcgtggcca cgcttcacgg tcacgctcgt 1560
ccgtcctgca gtggcgtgtt tacatggtca cacgtgtgtg tatcaccagt ggggtcaactg 1620
cttgtcattc ctcccggtgc agtttgtgta gacaatctta ctgagcaaaa ggcaatgaaa 1680
agtcttggtt cccacactgc gatataattg aattttcacc tcagtttatg aagtttattt 1740
cgaaatccat agtcatctaa gaatgaatac ctgtctgcc a tgtatttcaa tcttagtgag 1800
ccaaaattgt ttgtttgtta ctacagaata gagatgactg ttttttgcca cagccctatg 1860
gaatttgcaa tctgtgattg cctgttaaaa aggagagtgc atatggcact gcattaaacg 1920
tgtggtgttt ctagtcaatg atattgggtg gcacaatgta ttcatttaac ggcatagacc 1980
ataccagacc taatttgcaa gtattgggtc ttaaacttca agtgcaatgt atatgaaaac 2040
caatctgagc cttgtatctc ttaaatattt atttttttta acgtgtgaga tgttcgagag 2100
aaggttctcc attcatttca gtgctgacct gaggaactc ggcaatgatt tctttcagtt 2160
gtgaagtccc tttcgtgtta caccctccac tgaacctca accttcgaaa tactccagtt 2220
ttgtgggttt ggtcattttt acttataaat ttaccttttt gtattttgca atttacatgt 2280
gtttgggttt ttttaaatc tgtgaaagtg gcttgattaa aagactcctt ttaaattggaa 2340
gccaccagtc agcagaatgg aagcttagag gaacttgcc gtgagcgtg gtcttttgtgt 2400
ttgggtttgt gatgtaacga tctttgctgg ggttttttgc tttgttttga gggaaatgtc 2460
ttggagtaaa ttttaagttc ctggagttaa tttgttttac aggaattttg ttttttaaaa 2520
aaataggatc attctgaact ttggaatgac ccccttatat attttctgaa aatgaaaaca 2580
gttacatgaa aaaaatttcc aatgaagatg tcagcatttt atgaaaaacc agaagttatt 2640
agatgaaagc agcgagtga tcttttaaac agacttgatc acgcacacac aataagtctt 2700
tctctccgaa accggaagta aatctatatc tgtagaaat aatgtagcca aaagaatgta 2760
aatttgagga tttttttgcc aatagtttat agaaaatata tgaaccaaag tgatttgagt 2820
ttgtaaaaat gtaaaatagt atgaacaaaa tttgcactct accagatttg aacatctagt 2880
gaggttcaca ttcatactaa gttttcaaca ttgtgttctt tttgcattca ttttttactt 2940
ttattaaagg ttcaaaaacca aaaaaaaa

```

<210> 28

<211> 1661

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 332292.1

<400> 28

```

gctgttcatt gagacagact tcagtgggtat tacagaattt ggttacaact ggacacattg 60
ttcatataga gtccccctgg tccttgtgaa aaactccggt gttcctggta accacatagt 120
gtataaagcc cctcattgca ctagtgacaa tcctgtaacc cagaagcaaa tgagagaatt 180
gtcttttgtt tcatttgggg gagacgggtg ctatggagat ggatgatatc ataactccat 240
tgtgaaccag taagaacact ctctgtgagtc taacgggtct ccggatgaag gctatttgaa 300
gtcgccataa cctgggtcaga agtgtgacct tcggcgggga gagaggcaat atcaaggttt 360

```

PA-0043 US

```

taaatctcgcg agaaatggct ttcgttttgc tggctaatacg gatgcttata tacctttctg 420
ataaggcaca acatttggct gtacttcac ttcagaacac cgagataaaa gttaaccctc 480
ctcaggattt tgagatagtg gatcccgat acttaggtta tctctatttg caatggcaac 540
ccccactgtc tctggatcat ttttaaggaat gcacagtgga atatgaacta aaataccgaa 600
acattggtag tgaaacatgg aagaccatca ttactaagaa tctacattac aaagatgggt 660
ttgatcttaa caagggcatt gaagcgaaga tacacacgct tttaccatgg caatggcaca 720
aatggatcag aagttcaaaag ttcctgggca gaaactactt attggatata accaccaag 780
gaattccaga aactaaagtt caggatatgg attgctgata ttacaattgg caatatttac 840
tctgttcttg gaaacctggc atagggtgtac ttcttgatac caattacaac ttgttttact 900
ggtagaggg cttgggtcat gcattacagt gtgttgatta catcaaggct gatggacaaa 960
atataggatg cagatttccc tatttggagg catcagacta taaagatttc tatatttgtg 1020
ttaatggatc atcagagaac aagcctatca gatccagtta tttcactttt ccagcttcaa 1080
aatatagtta aacctttgcc gccagtctat ccttactttt actcgggaga gttcatgtga 1140
aattaagctg aaatggagca tacctttggg acctattcca gcaagggtgt ttgattatga 1200
aattgagatc agagaagatg atactacctt ggtgactgct acagttgaaa atgaaaacat 1260
accaccttga aaacaacaaa tgaaacccga caattatgcc tttgtagtaa gaagcaaagt 1320
gaatatttat tgcctcagat gacggaattt ggagtgaagt gagtgataaa caatgctggg 1380
aaggtgaaga cctatcgaag aaaactttgc ctacgtttct ggctaccatt tggtttctac 1440
ttaatattag ttatatttgt aaccggctctg cttttgcgta agccaaacac ctacccaaaa 1500
atgatttctt tctagattcc agaatttttc tgtgatacat gaaggacttt ccatatcaag 1560
agacatggta ttgactcaac agtttccagt catggccaaa tgttcaatat gagtctcaat 1620
aaactgaatt tttcttgcca atgttgaaaa aaaaaaaaaa a 1661

```

<210> 29

<211> 2444

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 245816.1

<400> 29

```

gggagcgcg aggagcatta ataaacctct aagccgagga gaaaactctg gctggggcag 60
tgcgctgagc gccggaggag cgtaggcagg gcagcgctgg cgccagtggc gacaggagcc 120
gcgcgaccgg caaaaataca cgggaggccg tcgccgaaaa gagtccgcgg tcctctctcg 180
taaacacact ctctccacc ggccctccc cctccgctct cgcgcgccgc cggctgggag 240
ccgagggcgg tcccgactgc tatgtgaccg cgaggctgcy ggaggaaggg gacagggaag 300
aagaggtctt ccgcggggag cccttgagga ccaagtttgc ggccacttct gcaggcgctc 360
cttcttagct ctgcgccgcc cttttctgca gcctaggcgg ccgggttctt cttctcttcc 420
tcgcgcgccc agccgcctcg gttcccggcg accatggtga cgatggagga gctgcgggag 480
atggactgca gtgtgctcaa aaggctgatg aaccgggacg agaatggcgg cggcgcgggc 540
ggcagcgcca gccacggcac cctggggctg ccgagcgggc gcaagtgcct gctgctggac 600
tgcagaccgt tcctggcgca cagcgcgggc tacatcctag gttcgtgcaa cgtgcgctgt 660
aacaccatcg tgcggcgggc ggctaagggc tccgtgagcc tggagcagat cctgcccgcc 720
gaggaggagg tacgcgcccg cttgcgctcc cggctctact cggcggtcat cgtctacgac 780
gagcgagacc cgcgcgccga gaggctccgc gaggacagca ccgtgtcgct ggtggtgcag 840
gcgctgcgcc gcaacgccga gcgcaccgac atctgcctgc tcaaaggcgg ctatgagagg 900
ttttcctccg agtaccaga attctgttct aaaaccaagg ccctggcagc catcccaccc 960
ccggttcccc ccagtgccac agagcccttg gacctgggct gcagctcctg tgggacccca 1020
ctacacgacc aggggggtcc tgtggagatc cttcccttcc tctacctcgg cagtgcctac 1080
catgctgccc ggagagacat gctggacgcc ctgggcatca cggctctgtt gaatgtctcc 1140
tcggactgcc caaaccactt tgaaggacac tatcagtaca agtgcattcc agtgaagat 1200
aaccacaagg ccgacatcag ctctgtgttc atggaagcca tagagtacat cgatgccgtg 1260
aaggactgcc gtgggcgctg gctgtgcac tgcaggcg gcatctcgcg gtcggccacc 1320
atctgcctgg cctacctgat gatgaagaaa cgggtgaggc tggaggaggc cttcgagttc 1380
gttaagcagc gccgcagcat catctcgccc aacttcagct tcatggggca gctgctgcag 1440
ttcgagtccc aggtgctggc cagctcctgt gctgcggagg ctgctagccc ctcgggaccc 1500
ctgcgggagc ggggcaagac ccccgccacc cccacctgc agttcgtctt cagctttccg 1560
gtctccgtgg gcgtgcactc ggccccccagc agcctgcctt acctgcacag ccccatcacc 1620
acctctccca gctgttagag ccgcccctggg ggccccagaa ccagagctgg ctcccagcaa 1680
gggtaggacg ggccgcatgc gggcagaaag ttgggactga gcagctggga gcaggcgacc 1740

```

PA-0043 US

```

gagctccttc cccatcattt ctccttggcc aacgacgagg ccagccagaa tggcaataag 1800
gactccgaat acataataaa agcaaacaga acactccaac ttagagcaat aacggctgcc 1860
gcagcagcca gggaagacct tggtttgggt tatgtgtcag tttcactttt ccgatagaaa 1920
tttcttacct cattttttta agcagtaagg cttgaagtga tgaaaccac agatcctagc 1980
aaatgtgccc aaccagcttt actaaagggg gaggaaggga gggcaaagg atgagaagac 2040
aagtttccca gaagtgcctg gttctgtgta cttgtccctt tgttgtcgtt gttgtagtta 2100
aaggaatttc atttttttaa agaaatcttc gaaggtgtgg ttttcatttc tcagtcacca 2160
acagatgaat aattatgctt aataataaag tatttattaa gactttcttc agagtatgaa 2220
agtacaaaa gtctagttac agtggattta gaatatattt atgttgatgt caaacagctg 2280
agcaccgtag catgcagatg tcaaggcagt taggaagtaa atgggtgtctt gtagatatgt 2340
gcaaggtagc atgatgagca acttgagttt gttgccactg agaagcaggc gggttgggtg 2400
ggaggaggaa gaaagggaag aattaggttt gaattgcttt ttaa 2444

```

<210> 30

<211> 1067

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1100140.10

<220>

<221> unsure

<222> 717-759

<223> a, t, c, g, or other

<400> 30

```

gggaagcgct tccgttgggt ccggccgctc tgcgggggact ctgaggaaaa gctcgcacca 60
ggtggacgcg gatctgtcaa catgggtaaa ggagacccca acaagccgcg gggcaaatg 120
tctcgtacg ccttcttcgt gcagacctgc cggaagagc acaagaagaa acaccggac 180
tcttcgctca atttcgcgga attctccaag aagtgttcg agagatggaa gaccatgtct 240
gcaaaggaga agtcgaagtt tgaagatatg gcaaaaagtg acaaagctcg ctatgacagg 300
gagatgaaaa attacgttcc tcccaaagg gataagaagg ggaagaaaaa ggaccccaat 360
gctcctaaaa ggccaccgta agttttaa atcccaaatt gctccttga ttttctcttc 420
agtttattaa actctgttgc ttctttcag atctgccttc ttctgtttt gctctgaaca 480
tcgcccgaag atcaaaagtg aacaccctgg cctatccatt ggggatactg caaagaaatt 540
tgggtgaaatg tggcttgagc agtcagccaa agataaacia ccatatgaac agaaagcagc 600
taagctaaag gagaaatatg aaaaggatat tggctgcata tcgtgccaa ggcaaaagtg 660
aagcaggaaa gaagggccct ggcaggccaa caggctcaaa gaagaagaac gaaccannnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ggaagaggat gaagatgaag 780
aataaatggc tatcctttta tgatgcgtgt ggaatgtgtg tgtgtgctca ggcaattatt 840
ttgctaagaa tgtgaattcc aagtgcagct caatactagc ttcagtataa aaatctgtac 900
agtttttata ctgaagctag tattgagctg cacttgaatt cacattctta gcaaaatact 960
agcttcagta taaaaactgt acagattttt gtatagctga taagattctc tgtagagaaa 1020
atacttttaa aaaatgcagg ttgtagcttt ttgatgggct actcata 1067

```

<210> 31

<211> 1700

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1136856.14

<400> 31

```

gcgcctgcct ccaacctgcg ggccgggaggt ggggtggctgc ggggcaattg aaaaagagcc 60
ggcgaggagt tccccgaaac ttgttggaac tccgggctcg cgcgagggcc aggagctgag 120
cggcgcgcg tgccggacga tgggagcgtg agcaggacgg tgataacctc tccccgatcg 180
ggttgcgagg gcgccgggca gaggccagga cgcgagccgc cagcgcgggg acccatcgac 240
gacttccccg ggcgacagga gcagccccga gagccagggc gagcgcccgt tccaggtggc 300

```

PA-0043 US

```

cggaccgccc gccgcgtccg cgcgcgcgtc cctgcaggca acgggagacg cccccgcgca 360
gcgcgagcgc ctcagcgcgg ccgctcgctc tccccatcga gggacaaact tttcccaaac 420
ccgatccgag cctttggacc aaactcgctt gcgccgagag ccgtccgcgt agagcgctcc 480
gtctccggcg agatgtccga gcgcaaagaa ggcagaggca aaggggaagg caagaagaag 540
gagcgaggct ccggcaagaa gccggagtcg gcggcgggca gccagagccc agccttgcct 600
ccccaatgta aagagatgaa aagccaggaa tcggctgcag gttccaaact agtccttcgg 660
tgtgaaacca gttctgaata ctctctctc agattcaagt ggttcaagaa tgggaatgaa 720
ttgaatcgaa aaaacaaacc acaaaatatc aagatacaaa aaaagccagg gaagtcagaa 780
cttcgcatta acaaagcatc actggctgat tctggagagt atatgtgcaa agtgcacagc 840
aaattagtaa atgacagtgc ctctgccaat atcaccatcg tggaatcaaa cgagatcatc 900
actggtatgc cagcctcaac tgaaggagca tatgtgtctt cagagtctcc cattagaata 960
tcagtatcca cagaaggagc aaatacttct tcatctacat ctacatccac cactgggaca 1020
agccatcttg taaaatgtgc ggagaaggag aaaactttct gtgtgaatgg aggggagtcg 1080
ttcatggtga aagacctttc aaaccctctg agatacttgt gcaagtgcc aaatgagttt 1140
actggtgatc gctgcaaaa ctacgtaatg gccagcttct acagtacgtc cactcccttt 1200
ctgtctctgc ctgaatagga gcatgctcag ttggtgctgc tttcttggtg ctgcatctcc 1260
cctcagattc cacctagagc tagatgtgtc ttaccagatc taatattgac tgcctctgcc 1320
tgtcgcgcatg gaacattaac aaaagcaatt gtattacttc ctctgttcgc gactagttgg 1380
ctctgagata ctaataggtg tgtgaggctc cgatgtttc tggaattgat attgaatgat 1440
gtgatacaaa ttgatagtca atatcaagca gtgaaatatg ataataaagg catttcaaag 1500
tctcactttt attgataaaa taaaaatcat tctactgaac agtccatctt ctttatacaa 1560
tgaccacatc ctgaaaaggg tgttgctaag ctgtaaccga tatgcacttg aaatgatggg 1620
aagttaattt tgattcagaa tgtgttattt gtcacaaata aacataataa aaggagttca 1680
gatgtttttc ttcattaacc

```

<210> 32
 <211> 1366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1256295.18

```

<400> 32
ctttgtcttc cagtggctgg taggcagtgg ctgggaggca gcggcccaat tagtgtcgtg 60
cggcccgtgg cgaggcgagg tccggggagc gagcgagcaa gcaaggcggg aggggtggcc 120
ggagctgcgg cggctggcac aggaggagga gccggggcgg gcgaggggag gcccggagagc 180
gccagggcct gagctgccgg agcggcgctt gtgagtgaat gcagaaagca ggcccccgcg 240
cgctagccgt ggcaggagca gccgcacgc cgcgctctct ccctgggcga cctgcagttt 300
gcaatatgac tttggaggaa ttctcggctg gagagcagaa gaccgaaagg atggataagg 360
tgggggatgc cctggaggaa gtgctcagca aagccctgag tcagcgcacg atcactgtcg 420
gggtgtacga agcggccaag ctgctcaacg tcgaccccga taacgtggtg ttgtgcctgc 480
tggcgggcga cgaggacgac gacagagatg tggtcttgca gatccacttc accctgatcc 540
aggcgttttg ctgcgagaac gacatcaaca tctgcgcgt cagcaacccg ggcgggctgg 600
cggagctcct gctcttgag accgacgctg gcccgcgggc gagcgagggc gccgagcagc 660
ccccggacct gcaactgcgt ctggtgacga atccacattc atctcaatgg aaggatcctg 720
ccttaagtca acttatttgt ttttgccggg aaagtgcgta catggatcaa tgggttccag 780
tgattaatct cctgaacggg tgatggcatc tgaatgaaaa taactgaacc aaattgcact 840
gaagtttttg aaataccttt gtagttactc aagcagttac tccctacact gatgcaagga 900
ttacagaaac tgatgccaag gggctgagtg agttcaacta catgttctgg gggcccggag 960
atagatgact ttgcagatgg aaagagggtg aaatgaagaa ggaagctgtg ttgaaacaga 1020
aaaataagtc aaaaggaaca aaaattacaa agaaccatgc aggaaggaaa actatgtatt 1080
aathtagaat ggttgagtta cattaaaaa aaccaaataa gttaaagttt aagtgtgcag 1140
ccatagtttg ggtatttttg gtttatatgc cctcaagtaa aagaaaagcc gaaaggggta 1200
atcatatttg aaaaccatat tttattgtat tttgatgaga tattaattc tcaaagtttt 1260
attataaatt ctactaagtt attttatgac atgaaaagtt atttatgcta taaatttttt 1320
gaaacacaat acctacaata aactggtatg aataattgca tcattt

```

<210> 33
 <211> 3747
 <212> DNA

PA-0043 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1330122.9

<220>

<221> unsure

<222> 3223-3355

<223> a, t, c, g, or other

<400> 33

```

ctcgcagcgc cctgtgagcg tcggcagtag tcaggcagcc agggctcctt gggcgatcgc 60
ctgggtagag gagaggagtt tccggggctc ggggtccgggt cgccttccag gggaacgagc 120
gcggaagcaa gtgggcggcg agaggcggag caagagacgc tggagggcgt ggacgcagcg 180
ggcttttgaa aggccccaag ttaatgaggc gtgcgcgggc tgcgagcgc ctcttgagcg 240
tggtgctttcc cccgcggtgc gggcgccagg agccgccttt tccgctgggt gtcactcggg 300
ggtggggaag atggcccatc caaaagcgcc gcgagggggc cgggccagtg cccttcagtg 360
agcgctcgca agaggacggc agaggccccg cagctcggag ctccgggacc ttgtggcgca 420
tcaggacgcg gctgtccctc tgccgggacc cagagccgcc gccgcgctc tgctctctgc 480
gtgttagcct cctctgcgcg ctccgggcag gcggccgtgg gagccgctgg ggcgaggacg 540
gcgcgaggct gctgctgctg ccccgggccc gcgcggctgg aaacggagag gccgagccaa 600
gcggcgggccc ctcttatgct gggaggatgc tggagagtag cggctgcaaa gcgctgaagg 660
agggcgtgct ggagaagcgc agcgacgggt tgttgagct ctggaagaaa aagtgttgca 720
tcctcaccga ggaagggctg ctgcttatcc cgcccaagca gctgcaacac cagcagcagc 780
agcaacagca gcagcagcag cagcaacaac agccccggca ggggcccggc gagccgtccc 840
aaccagtggt ccccgctgtc gccagcctcg agccgcgggt caagctcaag gaactgcact 900
tctccaacat gaagaccgtg gactgtgtgg agcgcaagg caagtacatg tacttactg 960
tggtgatggc agagggcaag gagatcgact ttcggtgccc gcaagaccag ggctggaacg 1020
ccgagatcac gctgcagatg gtgcagtaca agaatcgta ggccatctg gcggtcaaat 1080
ccacgcggca gaagcagcag cacctggtcc agcagcagcc cccctcgcag ccgcagccgc 1140
agccgcagct ccagcccaa cccagcctc agcctcagcc gcaaccccag cccaatcac 1200
aaccagcgc tcagcccaa cccaagcctc agccccagca gctccacccg tatccgcac 1260
cacatccaca tccacactct catcctcact cgcacccaca cctcaccgg caccgcac 1320
cgcaccaa at accgcacca caccacagc cgcactcgca gccgcacggg caccggcttc 1380
tccgcagcac ctccaactct gctgaaagg ggcagctccc gggcaagaca aggttttgag 1440
gacttgagga agtgggacga gcacatttct attgtcttca cttggatcaa aagcaaaaca 1500
gtctctccgc cccgcaccag atcaagtagt ttggacatca ccctactgaa aacttgcgat 1560
tcttcttagt tttctgcata cttttcatca cgatgcagga aacgatttct agtcaagaag 1620
acttttattt atgaaccttt gaaaggatcg tcttgtatgg tgaattttct aggagcgatg 1680
atgtactgta attttatttt aatgtatttt gatattatgat tatttattag ttttttttta 1740
aatgcttggt ctaagacatt tctgaatgta gaccattttc caaaaaggaa actttatttt 1800
caaaaaccta atccgtagta attcctaata ttggagaata aaaaaggcg gtggagggga 1860
aaacattaag aattttattc ttattttctc agtactttca gaaagtctga cactttcatt 1920
gttgtgccag ctggttgaaa ttaaaactct gatattactt tttttgagga tttttatttt 1980
tgtttttgct taaacatata gtttgtctag aagtttaaaa agctaaaagt taaaaatgg 2040
gtaattatga aaatctaaca ctcaagatag tttctaaaag gaaatcagta gttaaggata 2100
cctgatttca aaatatttaa agcataacct aactgatggg aggatgattg tatcttgaat 2160
atgtggtagg gccacatcta ttgtaggaaa accttgcttt tatcatctgt gtgtaaagg 2220
cttaataagg agaagaggcc ttttgactga tttgtgagta taaatgcatt tgctgtttca 2280
tttcaaaaat gttgtggagg aaaagagtac atttaacttg tataagagaa tatttgtact 2340
cctgtccagg ctgcaggacc tttcttcgag agctttgcac acttgacttg aaccacattt 2400
tctgatccct ttactttggt ttagaagcac actgaaaaat ctggttgggt aaagtacaat 2460
ttgtaaatat ttcaagggtc taggagtcac aacttttggt ttcatactga aaatgatgtt 2520
gatcagagaa accaactggt ttgcttttca ttgctctgtg agaaatttga ggattctgtt 2580
ttgctgttag gtaagctaaa ctcaaaaatt gaaaaggaaa agactggata aacacaggat 2640
tttcagtaag aaaacaaccc cagtcttgct ttagaagcca cttgttgagg agtctgttgg 2700
gggaaaaaag aggatatgct tttaaaggta gaacaaacct tcttctgtgt taaatcaaaa 2760
ggatgttcaa aatccaccag gacagatgct acttgggttt aaatggagcc atagatgata 2820
caaagtcctc ttggggctga aaatcacttc ctatttgcac ggctttacta actggtttct 2880
gttttccatt atctttttca cagaaagtct tggtcagtat tttccagca tttaaattga 2940
aacggtcagt attagaccac tgctaggtta tgtagtcaag aaataaaaat agaattacat 3000

```

PA-0043 US

```

gctacagatg tctttattct ccttccatct agaaaggagt tccaagggtca aattactttt 3060
tagtgcaata gttaaatgac attttgagat cataactcat atccaaaaag ttgcagggaa 3120
aattaaaata gctttccctt attaaagctaa tggcaaacaa aacttaagtg gacccccact 3180
tccagtgggt gtttaggttg cagttgtgaa aatatgctgc cannnnnnnnn nnnnnnnnnn 3240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngaaat 3360
gagagccaca tctaaagatt tcttaaataca agtttggttc agcttcctta gaactgtggc 3420
tgtacttttt gaggagtacc tcatagtact atatttttaa tgcattgcaa tcataatagc 3480
tccaaatgaa ccacagtttt ttcccaatgg aggatttttt ttttaattctt gtactaaaaa 3540
aaaaaaatcc ataccaataa tttttacaaa ttaagattga tgtagggtttt aaaaaaggca 3600
tttgtatggt gtttagcttac atatggggct aggtaatttc attgcttaaa aagatgcgcc 3660
taggtccctt cttggtggct ggattttctt ttcttcgccc gtggtggcca tggttcttaa 3720
tagggccacc ggaatcatgg gttctttt                                     3747

```

<210> 34

<211> 2321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1382924.50

<400> 34

```

ctgccatctt ggactcgggc tgagtaataa attccccccg caccgaaacg cgggtctttct 60
ctagacgcgt cttgctggga gagtgtccgt tgcctcccggt ccgtgtcgcg gccctgcggt 120
tggcggcctc ctcgtggagc ggagcaaggc caggcggccc ctgctcgagt cccgcgtcgc 180
catggccgcg gttcccgagt tgctgcagca gcaggaggag gaccgcagca agctgagatc 240
tgtatctgtg gacctgaatg ttgatccctc gcttcagatt gacatacctg atgcgctcag 300
tgagagagac aaagtcaaat ttacagtgc cacaagacc aactgccc cgttttcaga 360
gcccagagtt ttctgttaca aggcaacatg aagactttgt gtggctacat gacactctta 420
ttgaaacaac agactatgct gggcttatta ttccacctgc tctacgaag cccgactttg 480
atggctctcg agagaagatg cagaaactgg gagaagggtga agggcttatg accaaagaag 540
aatttgccaa gatgaaacaa gaactggaag ctgagtatct cgtgtgtgtt aagaagactg 600
tgtctctcca tgaagtcttt cttcagcggc tttcttctca cctgttctc agtaaagatc 660
gcaactttca tgttttctct gaatatgatc aggatctaag tgttaggcgg aaaaatacta 720
aagaaatggt tggtggcttc ttcaaaagt tggtgaaaag tgctgatgaa gtccttttta 780
ctggagttaa ggaggtagat gacttctttg agcaagagaa gaacttctt attactatt 840
acaataggat caaagattct tgtgtgaaag ctgacaaaat gaccagatct cataaaaatg 900
ttgccgatga ctatatccac accgcagcct gcttacatag cctggcttta gaagagccca 960
cagtcaccaa aaagtaccta ttgaaggttg ctgagctatt tgaaaaacta aggaaagtag 1020
agggctcgagt ttcacatcagat gaagatttga agctaacaga gctcctccga tactacatgc 1080
tcaacattga agctgctaag gatctcttat acagacgcac caaagccctc attgactatg 1140
agaactcaaa caaagctctg gataaggccc ggttaaagag caaagacgtc aagttggctg 1200
aggcacacca gcaggagtgc tgccagaaat ttgaacaact ttccgaatct gcaaaagaag 1260
aactgataaa tttcaaacgg aagagagtgg cagcathtag aaagaatcta attgaaatgt 1320
ctgaactgga aataaaacat gccaggaaca atgtctccct tttgcagagc tgtattgact 1380
tgttcaagaa taactgatat gccttcactc agaagaaaag aaatgaatgt gaaagaaagc 1440
caagcatcac ttgcacttaa atcattacca cggaagatat attagcttca actttagttt 1500
aaaattatgt gaataaatat tttgatttct acaaacttta acatttaacc atgttggttt 1560
aaaaatatta ttgcttgcta cttggacata actaattttt ccttgtgcat ttaataacct 1620
tgggcagaat ccaaatactg ggttctcccg tagttcgtct ttagttacta agaaagggtg 1680
taggacacat tagccttctg gaaacaagta gaagccatca cctggcccat gtccctacaa 1740
acccatgatt gtcaggaggg tgccagttac agcaggtgat tcagctactt gaggtcggtg 1800
acagaccttc cattcctcac tgaaggtggg gtttgtgttt ttgttttgcc ctgttactcc 1860
actggtagtc atctggtgtt tgtactataa caacagcaag aaaatctcat ttatctttat 1920
atactctttg cacctccttt ttttagtcga gatataaata tttgagggga gagaaatatc 1980
tacagggtata tatggaaaca aataatgtgg tctgctttat aagatggcca gatctacatt 2040
aggaaaagta taagccccct ccctaattggc cgctgggggg tgagggcggt gtgttgatat 2100
tctttgggtg tttgtttttt tataaagcag aacagtttat gaagaagatt gttgcaaacc 2160
cagaggacac cagatccctg gaggtcgaat ttattgcctt gtctgtcaag atccgcagtt 2220
atgaagaaca cttggagaaa catcgaaagg acaaagcca caaacgctat ctgctaatag 2280

```

gcattgacca gagggaaaaag atgctcaaaa acctccgtaa c

2321

<210> 35
 <211> 7071
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1383205.5

<220>
 <221> unsure
 <222> 3259-3280, 4021
 <223> a, t, c, g, or other

<400> 35
 ccttgagac tagaaagaaa ctgctagatg gctgtaacac agttcatcca tttccgtgaa 60
 gagatcatgg ggaatatgtt cttcatcatc atcttcagta ccaaggataa actgtgttac 120
 agagatggag aagaatatga atggaaagaa actgctagat ggctgaaatt tgaagaggat 180
 gttgaagatg gcggtgaccg atggagtaaa ccttatgtgg caactctctc tttgcacagt 240
 ctttttgaac taaggagttg catcctcaat ggaacagtca tgctggatat gagagcaagc 300
 actctagatg aaatagcaga tatggtatta gacaacatga tagcttctgg ccaattagac 360
 gagtccatac gagagaatgt cagagaagct cttctgaaga gacatcatca tcagaatgag 420
 aaaagattca ccagtcggat tcctcttggt cgatcttttg cagatatagg caagaaacat 480
 tctgaccctc acttgcttga aaggaatggt attttggcct ctccccagtc tgctcctgga 540
 aacttggaca atagtaaaaag tggagaaatt aaaggtaatg gaagtgggtg aagcagagaa 600
 aatagtactg ttgacttcag caaggttgat atgaatttca tgagaaaaat tcctacgggt 660
 gctgaggcat ccaacgtcct ggtggcgcaa gtagactttt tggaaaggcc aataattgca 720
 tttgtgagac tggtcctgc tgctcctctt acagggttga ctgaggtccc tgttccaacc 780
 aggtttttgt tttgtttatt ggggtccagcg ggcaaggcac cacagtacca tgaaattgga 840
 cgatcaatag ccactctcat gacagatgag attttccatg atgtagctta taaagcaaaa 900
 gacagaaatg acctcttatc tggaaattgat gaatttttag atcaagtaac tgtcctacct 960
 ccaggagagt gggatccttc tatacgcata gaaccaccaa aaagtgtccc ttctcaggaa 1020
 aagagaaaga ttctctgtgtt tcacaatgga tctaccccca cactgggtga gactcctaaa 1080
 gaggccgctc atcatgctgg gcctgagcta cagaggactg gacggctttt tgggtggttg 1140
 atacttgaca tcaaaaggaa agcacctttt ttcttgagtg acttcaagga tgcattaagc 1200
 ctgcagtgcc tggcctcgat tcctttccta tactgtgcct gtatgtctcc tghtaatcact 1260
 tttggagggc tgcttgagaa agctacagaa ggcagaataa gtgcaataga gtctcttttt 1320
 ggagcatcat taactgggat tgctatttca ttgtttgctg ggcaacctct aacaatattg 1380
 gggagcacag gtccagttct agtgtttgaa aaaattttat ataaattctg cagagattat 1440
 caactttctt atctgtcttt aagaaccagt attggtctgt ggacttcttt tttgtgcatt 1500
 gttttgggtg caacagatgc aagcagcctt gtgtgttata ttactcgatt tacagaagag 1560
 gcttttgcag cccttatttg catcatattc atctacgagg ctttggagaa gctctttgat 1620
 ttaggagaaa catatgcatt taatatgcac aacaacttag ataaactgac cagctactca 1680
 tgtgtatgta ctgaacctcc aaacccagc aatgaaactc tagcacaatg gaagaaagat 1740
 aatataacag cacacaatat ttcttgagaa aatcttactg tttctgaatg taaaaaactt 1800
 cgtggtgtat tcttgggggc agcttgtggt catcatggac cttatattcc agatgtgctc 1860
 ttttgggtgt tcatcttgtt ttccacaaca ttttttctgt cttcattcct caagcaattt 1920
 aagaccaagc gttacttttc taccaagggt cgatcgacaa tcagtgattt tgctgtattt 1980
 ctcaaatag taataatggt tacaattgac tacctttagt gagttccatc tcctaaactt 2040
 catgttcctg aaaaatttga gcctactcat ccagagagag ggtggatcat aagccactg 2100
 ggagataatc cttggtggac cttattaata gctgctattc ctgctttgct ttgtaccatt 2160
 ctcatcttta tggatcaaca aatcacagct gtaattataa acagaaagga acacaaattg 2220
 aagaaaggag ctggctatca ccttgatttg ctcattggtt gcgttatgtt gggagtttgc 2280
 tctgtcatgg gacttccatg gtttgtggct gcaacagtgt tgtcaataag tcatgtcaac 2340
 agcttaaaaag ttgaatctga atgttctgct ccaggggaac aaccaagtt tttgggaatt 2400
 cgtgaacagc ggggttacagg gctaattgatt tttattctaa tgggcctctc tgtgttcatg 2460
 acttcagtcc taaagtttat tccaatgcct gttctgtatg gtgttttctt ttatatggga 2520
 gtttcctcat taaaaggaat ccagttattt gaccgtataa aattatttgg aatgcctgct 2580
 aagcatcagc ctgatttgat atacctccgt tatgtgccgc tctggaaggt ccatattttc 2640
 acagtcattc agcttacttg tttggtcctt ttatgggtga taaaagtttc agctgctgca 2700

gtgggtttttc	ccatgatgggt	tcttgcatta	gtgtttgtgc	gcaaaactcat	ggacctgtgt	2760
ttcacgaaga	gagaacttag	ttggcttgat	gatcttatgc	cagaaagtaa	gaaaaagaaa	2820
gaagatgaca	aaaagaaaaa	agagaaagag	gaagctgaac	ggatgcttca	agacgatgat	2880
gatactgtgc	accttccatt	tgaaggggga	agtctcttgc	aaattccagt	caaggcccta	2940
aaatatagtc	ctgataaacc	tgtgagtgtg	aaaataagtt	ttgaagatga	accaagaaaag	3000
aaatacgtgg	atgctgaaac	ttcattatag	aattgaacca	agaggcatta	tacatataga	3060
tatatacata	tgtaatgtgt	gcgtatcatg	tcactatata	taagaatatt	gtatgtcatg	3120
ctgtttatgt	gtgactaccg	ggttttttaa	agtagtgtct	ggagtttgta	atgagcaccg	3180
tggagactat	gtatttaatg	aaatgctctc	tttgaagtga	ggtacatggg	tcttaactat	3240
tcaaataattt	attctgttnn	nnnnnnnnnn	nnnnnnnnnn	gcaatagaag	gatgtggaga	3300
aatgcttttc	gtctactttt	cttaaactctc	tgttcatcag	tggcaattcg	taaaaacctt	3360
aagtgaatac	ttgtttatat	gtttataaatt	tttaggtgtt	tcctgaaatt	ttcacatatt	3420
atttcactttt	tgttagtgct	ttatgggaag	aatagggagt	ctataccagt	gctgtgggaa	3480
aaatggtaac	atttcagggc	ttctctattt	gtgtttcatt	tctgtagatg	tccatcgtgt	3540
ttcactaact	ggcgttttct	tagccataga	gatgactgta	gaacaataga	aactttaata	3600
atgatagttt	ttaactttta	tgtttaaatt	ttttttaaat	cttaaaacct	tcatatctag	3660
gtatccattg	tgacagacaa	gtaaaattgc	aggtgatttg	ataattaagc	acccatacca	3720
tttataactt	ctgaatttaa	aaagttatac	aatgccagtt	tgcaatagtt	gattttggat	3780
gcccttgtag	aatatTTTTT	ctgaatcctt	atgctctttt	aaagccaatg	attcccactc	3840
tgttctctgc	ctgtctcttc	tttgtcttaa	aatgcttttag	tttccatcag	gttcaagttc	3900
ttgactatta	ttctcttata	agtagtaggc	gtaaataatc	aggagttaga	attctctcag	3960
aagggtctat	gatcagtatt	actttattaa	gaattacctt	tcattttctc	tttatgttat	4020
nctttcactt	gtgtagatta	catttaatag	cttgttacct	gtgattttat	tttaaaatat	4080
ttattttgat	atgatgctta	aatattgtat	aaacatttgg	aaaagtaaca	aatagagtaa	4140
attgttaatg	taaatagtgt	gtgcttactt	tcattttatg	ttattatctt	aaagcaattg	4200
atagattttta	catctttgat	ataaagcact	gccatattta	tattttaaaa	ggaaattaga	4260
cattttatat	gtagctcaga	ttaatgacat	ttttattttg	tgtattagtt	tttgcttttc	4320
tgagcttttt	aaagtctaac	aaatcttttt	agtcactctt	tatatacttt	tagttccaca	4380
tgaataaatt	gttgtaagc	ctgtaggact	ggatgaatgg	ggttgtgaaa	ctgatttgac	4440
aagagaataa	tttacaaaaa	tcaaagttag	attgagaagc	cacagaaata	tcaaaaatgg	4500
tgacatcact	attaggatga	aaattttatg	aaattccaat	gctcccttta	accatataat	4560
taaattacaa	aggtatacat	aattaatcta	ataaaggatc	atgaggaatg	ccaaaagctg	4620
aaatttttagc	aagtctgggtg	ttttaaattc	attataaaact	atttattaac	taatgtaatg	4680
tcctcctcta	agaccatatt	gtaagagtct	tgttaaaaatg	atggattcaa	cttctgcctc	4740
ggatgagagg	ttggaaatgt	agctgctttt	cttttagaaaa	tatgtagctg	tcattcatttg	4800
gtactgccta	aaaagagtta	gactctattg	gcaattgata	gagtattacc	cacggtgctt	4860
attattgttt	atgagcttcc	attgtaatga	ttcctttttta	tttgtagcag	cataattatt	4920
tccaaagacc	ccagtatttg	ctgctatttt	taaaactccc	ctgatgtacc	tgaacaagag	4980
gatttcctca	catcattttc	ttgtgtctgg	acatcagggg	taacaactgt	acttacttta	5040
caggaagaaa	ttttaaaact	gaaaactacc	tgggatcata	gtgtttctgt	gatttttatt	5100
aattgtgtat	agtaattatc	cagtgccaga	aaaaccgtca	cttgcaaaat	actttgcact	5160
caaaatgttt	ttacaatgct	tctaaatggt	actggtttct	gctttctttt	gactacttga	5220
ctgacaaaat	gatctgacta	ctccatttta	gagcaaaggt	aactcatgtt	taggtaatta	5280
actgcttggt	ttaagtgatt	atattttctc	cactgttttt	gaaaaataat	caaagatagc	5340
attcattgag	agacagtgac	agatataatt	tactacatat	attgattttt	aaataaagtt	5400
gccttaaata	agtgtatgta	agcagtagta	gttgctatgt	actgattttac	ctcaagggtgc	5460
aaaataatta	aacctgtaca	tattccattt	acaaaataaa	ttcagccctg	cactttcttt	5520
agatgccttg	atttccagaa	tggagcttag	tgctactgaa	taccctggcc	acagagccac	5580
ctcaggatat	tcttttctcc	accctagttt	atttatttat	agatatctgt	ttacaaagtc	5640
tgtagtaaat	cctgatgctg	accatctgaa	atgtactttt	tttctgaatg	ctgtttcaat	5700
ctaaaatagc	agcttttgag	aaaacaatga	tgtaaattcc	ttatgataaa	aggatgattc	5760
tatatattct	ttaatgatat	taaatatgcc	gaagccaagc	acacagtcct	tctaaagtgt	5820
gtgtatgttt	gtgtgaatgt	gaatgatact	gatcttatat	ctgttaaaaag	ttgttttaaa	5880
aagctgtggc	atccccattg	tcataatttg	caagctctct	gtaaagatgt	ctaggacgaa	5940
atattttatg	tgctaattga	tgtatttgta	aaccagattt	gtttaccact	caaaattaac	6000
ttgttttctt	catocaaaaa	agttttattc	ttccacgtac	ttaaattttc	tgtgtgggta	6060
taatatagct	ttctaatttt	tttctttcac	aaaggcaggt	tcaaaattct	gttgaaagaa	6120
aaatgctttc	tgaactgag	gtataacacc	agagcttgct	gtttaaagga	ttatatgatg	6180
tacatcagtt	ctataaatgt	gctcagcagt	ttaacatgtg	aatcctgttt	taaagtgtc	6240
agatttcaac	tgtgtaagcc	attgatataa	cgctgtaatt	aaaaatgttt	atatgaaata	6300
acttaatgtt	ttaaatttat	ttatgtagat	cacatcattt	ttatcgtatg	cagtgcacaa	6360
atgtgaaatg	tcttttggtt	tattccaaca	attattttatt	ttagaaagta	agtttaaaaga	6420

PA-0043 US

```

ctttaaggac attcaaagtt taaaatagtg ttcaaattgc aaaatttggc aatcttcata 6480
taaatgggtt tcttttctaa cttttcaaaa actaacatta aatgtcaatt ataggaaaac 6540
atagttggaa atgtaatcat ccaaagatca tttttaaaat gaaatttaat tagcacatat 6600
tgaacatttg acttaattgt taaaccccag ttttgttttg tttttttaat cagatttttg 6660
cacactgatt agtttttgtg ttgtggcctt tggtgcttta ttattcaagg tttttttttt 6720
ttttcttccc catgggggag attgtcttcc aatgtttaac tacgtttaaa taaataaaaa 6780
ttgaatttta ttgttcattt atataaaatc tgataccttg atgtaatttc acaatacagt 6840
tccaattttt atggctttta taattacaat gatattttct tctataataa aatccaaagt 6900
aaacatttaa attgtagaac tgataatttt cattttatatg aagtataagc ctctactggg 6960
tctatattgt gaatcatcct gcctttcaaa tttgtttcat aattgttaga tgaaaactat 7020
ttttttggag atgttactga agttgattga gcaataaaag tctacttaat t 7071

```

<210> 36

<211> 2462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 197745.19

<400> 36

```

gcttgaaact aaccctctt tttctccaaa ggagtgcctt tggagatcgg atcttttctc 60
cagcaattgg gggaaagaag gctttttctc tgaattoget tagtgtaacc agcggcgat 120
atTTTTtagg cgcttttctg aaaacctagt agttaatatt catttgttta aatcttattt 180
tatttttaag ctcaaactgc ttaagaatac cttaattcct taaagtgaat taattttttg 240
caaaggggtt tcctcgattt ggagcttttt tttcttccca ccgtcatttc taactcttaa 300
aaccaactca gttccatcat ggtgatgttc aagaagatca agtcttttga ggtggctttt 360
aacaccctg aaaagggtga cggcagtggc gagaagggtg ctggccgggt gatagtggag 420
gtgtgtgaag ttactcgtgt caaagccgtt aggatcctgg ctgcccgggt ggctaaagtg 480
ctttggatgc agggatccca gcagtgcaaa cagacttcgg agtacctgcg ctatgaagac 540
acgcttcttc tggaagacca gccaacaggt gagaatgaga tggatgatcat gagacctgga 600
aacaatatg agtacaagtt cggctttgag ctccctcagg ggccctctggg aacatccttc 660
aaagggaaat atgggtgtgt agactactgg gtgaaggctt ttcttgaccg cccgagccag 720
ccaactcaag agacaaagaa aaactttgaa gtatggatc tgggtggatgt caatacccct 780
gatttaattg cacctgtgtc tgctaaaaaa gaaaagaaag tttcctgcac gttcattcct 840
gatgggcggg tgtctgtctc tgctgaatt gacagaaaag gattctgtga aggtgatgag 900
atttccatcc atgctgactt tgagaataca tgttcccga ttgtgggtccc caaagctgcc 960
attgtggccc gccacactta ccttgccaat ggccagacca aggtgctgac tcagaagttg 1020
tcatcagtca gaggcaatca tattatctca gggacatgcg catcatggcg tggcaagagc 1080
cttcgggttc agaagatcag gccttctatc ctgggctgca acatccttcg agttgaatat 1140
tccttactga tctatgttag cgttcctgga tccaagaagg tcatccttga cctgccccctg 1200
gtaattggca gcagatcagg tctaagcagc agcaacatcc agcatggcca gccgaaccag 1260
ctctgagatg agttgggtag atctgaacat ccttgatacc ccagaagctc ctccctgcta 1320
tatggatgtc attcctgaag atcaccgatt ggagagccca accactcctc tgctagatga 1380
catggatggc tctcaagaca gccctatcct tatgtatgcc cctgagttca agttcatgcc 1440
accaccgact tatactgagg tggatccctg catcctcaac aacaatgtgc agtgagcatg 1500
tggaagaaaa gaagcagctt tacctacttg tttctttttg tctctcttcc tggacactca 1560
ctttttcaga gactcaacag tctctgcaat ggagtgtggg tccaccttag cctctgactt 1620
cctaattgtg gaggtggtca gcaggcaatc tcctgggcct taaaggatgc ggactcatcc 1680
tcagccagcg cccatgttgt gatacagggg tgtttgttgg atgggtttta aaataactag 1740
aaaaactcag gcccatccat tttctcagat ctccctgaaa attgaggcct tttcgatagt 1800
ttcgggtcag gtaaaaaatg cctcctggcg taagcttttc aaggtttttt ggaggctttt 1860
tgtaaatgtg gataggaact ttggaccttg aacttacgta tcatgtggag aagagccaat 1920
ttaacaaact aggaagatga aaagggaat tgtggccaaa actttgggaa aaggagggttc 1980
ttaaatacag tgtttccctt ttgtgcactt gtgaaaaaaa aaagggtgtt gtgtggatac 2040
ccagtcccag aaccacactg ttgagttgga cacactgtaa acccctgggt aactgtcaag 2100
tcatgatgga gacttcaggt tgttctgtat aaaatgcaaa ataaatgttt taaaaataa 2160
aaaagtaac cccaagtaac aagtttacta aacaagacc agcaccatgt tggactttct 2220
ttgcataagt tccaggatgc ccaggcacta ccgaggagag atgatcctgc ttttgggaga 2280
gccagatggg cgtgcagtggt ttaaaaccca gtccctcctt tcttggaaac gttatgtccc 2340
atccaagaag aaagacagtg acatcggttt ggtcttacac attttccacc atttaagcag 2400

```

PA-0043 US

ggagactggc aaacagctgt atgacagcga gaacccgtcc agccaagcgg gcagtcacac 2460
tg 2462

<210> 37
<211> 6048
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 198777.19

<220>
<221> unsure
<222> 23
<223> a, t, c, g, or other

<400> 37
gctggggccg agggtagctt gancgcggcg gcggcgcttgt tcagtcagag cgagaacatt 60
ccagaggtcg cccagctccg gcgctgacgg gtgtggaccg cggacgtcgc tgggacagcc 120
ccctccccgc tgctcggcgg cggaacctgg cccggccgct cctcgtcgcg cttcgcctcc 180
gcctcctcgg actcggactc ggactcgggt ttatatcgg cctcacttca tcccagtcct 240
gggcgagcag cgttgggttt atgtctttat ttgacgaaaa cgagctgttg cgcagccatt 300
ggtacctgta ttggggaaac atagcataca agcaagaagc ttacagcctc agtggcgaaa 360
atTTTTTcat gtcagagacc gagaactctt gcagtcgttt atgtcatccc ttcttctcca 420
gacagaagat accaaaaagt tgcaatcaaa gatctcttca tcttattgat aaagccacta 480
ataagccaaa atgtctgtca atgtcaaccg cagcgtgtca gaccagttct atcgctacaa 540
gatgccccgt ctgattgcca aggttgaggg caaaggcaat ggaatcaaga cagttatagt 600
caacatgggt gacgttgcaa aggccttaa tcggcctcca acgtatccca ccaaatattt 660
tggttgtgag ctgggagcac agaccagtt tgatgttaag aatgaccgtt acattgtcaa 720
tggatctcat gaggcgaata agctgcaaga catgttggat ggattcatta aaaaatttgt 780
tctctgtcct gaatgtgaga atcctgaaac agatttgcag gtcaatccaa agaagcaaac 840
aataggtaat tcttgtaaag cctgtggcta tcgaggcatg cttgacacac atcataaact 900
ctgcacattc atttctcaaaa acccacctga gaatagtgc agtggtacag gaaagaaaaga 960
aaaagaaaag aaaaacagaa agggcaaaga caaggaaaat ggctccgtat ccaccagtga 1020
gacaccacca cctccaccac caccaaata aattaatcct cctccacata caatggaaga 1080
agaggaggat gatgactggg gagaagata aactgaggaa gctcaaaggc gtcgaatgga 1140
tgaaatcagtg gaccatgcaa aagttctgac actcagtgat gatttggaaa gaacaattga 1200
ggagagggtc aatatcctct ttgattttgt taagaaaaag aaagaagagg gtgttattga 1260
ttcatctgac aaagaaatcg ttgctgaagc agaaagactg gatgtaaaag ccatgggccc 1320
tcttgttcta actgaagttc tttttaatga gaagattaga gaacagatta agaaatacag 1380
gcgccatttc ctacgatttt gtcacaacaa caaaaaagcc caacggtacc ttcttcatgg 1440
tttgagtggt gtggtagcaa tgcataaagc tcagcttatc tccaagattc cacatatctt 1500
gaaggagatg tacgatgcag acctttttaga agaagaggtc atcatcagct ggtcggaaaa 1560
ggcctctaag aaatatgtct ccaaagaact tgccaaagag attcgtgtca aagcagaacc 1620
atttataaaa tgggtgaagg aggcagagga agaattctct ggtggcgaag aagaagatga 1680
agatgagaac attgaggtgg tgtattcgaa ggctgccagt gtaccgaaag ttgagactgt 1740
aaagtcagac aacaaggatg acgacatcga tattgatgcc atttaaaggg atggatgcaa 1800
cctagcttaa cagtataatg ctgcaaatTT tcttccatta tcagccagaa gtgcaacatg 1860
tatgtgcaaa agctaaaatg gcttaacatc atgctacact ttacactaaa aatctattac 1920
tgtgagtggt ctgttattaa gcccaatgag acatctaggg agtccataca catcagtgag 1980
cagatgtagt ttgcttattt atagcatgtt tctttttgaa aaactagtgg tggacacatt 2040
tggatcacat ttatacagtt ataaaaataa aggttttgatt ttggtcgttc ttcagatgtt 2100
tggctctgaa tgacttaagc tgaagtaact ggctccttac tttaaatgtt ctgccatcat 2160
ttcacctgat gagcattctt ggagcctgcc agatattgtt aggtcctggg gctgcaaaga 2220
ggtcctcaac aggatgtaaa gcaaaacttaa ttgtaattaa tttattcagc ccattaagaa 2280
agtactaaaag ttttatctct gtagttcctc aaattggcat ctggtaatgt acattgtgag 2340
gtagactgat aatgaaatga cagtgcacaa tcttaaccaa gaagtaaata tgacctcagt 2400
gtcctataaa taatgtaaga gcaggatttg aaacttggag agctgttttc tcatttcatg 2460
tacacttgcc ccaaattgtc tttgaagtcg tgtgcattgc acgttggatg agccagggaa 2520
attattacat taacaagcat tttgtgtgta cgtagtagtt actttgtact gagagaactt 2580
gctttgggggt gcaattaata aactgatttt atttgggaga aacaaggaag ggtgcactta 2640

PA-0043 US

actagcaacc	taagcatgat	ttttcagctt	ttgcccttag	ggtttaaat	acaattccaa	2700
aatgttagac	atactgtatt	ttttcgttca	gtgtggcttt	aattttcccc	tcttgagatt	2760
tgttctgtaa	tgctttttac	atttggacac	atagtttatg	cttttttagat	tttggttgct	2820
ttcttgccaa	aataagtgtt	aactgtgttt	caaacttgat	tttctttcct	ttttcttttt	2880
ttttctttcc	agaatgtctt	atttaaaaaag	aaagctaaaa	gcatacttct	aagtccagagc	2940
ctctattttg	gtgtaagact	tgggatattt	tttacttcac	attgaatata	gccaggcacc	3000
caagaagtct	gatggccacc	tgagtgcagg	tgacaaggac	ctgacagagc	ccatgcaggg	3060
cttttagattt	ggacacacaa	gagttgataa	cttcctcatg	aactccttgc	ctgatctaaa	3120
ctcatattat	gggttctgac	tgtttgagta	atcatcttca	agggttaaacc	tcttggcagt	3180
tacccttttc	acaaagtgca	cagtgggaat	cgagaatcga	tagggttaat	tttggagcag	3240
tggtcttatc	cattcacctc	tgtttttttg	tgattatttc	acagataatg	agaccttaat	3300
aacaaatagg	cgtaaaaaaa	ttttcacatt	gaaatgatag	aaacatttga	tgtaataaaa	3360
cttggttggc	ttgataattt	aaggaattga	aacctagcaa	tcttatttga	gagacaagaa	3420
ttggtctcca	gctgcctttg	atcaagattc	gggtgcaagt	ggagcaggag	ccatatacct	3480
ggaggggaatg	tgctttgtca	caccaaagag	gatttttttt	tcttcaaact	tgatgtttgc	3540
ctaggttttca	aattctttgc	cgcaaggctg	atctgctttc	attaactgga	attctgtagg	3600
agatactggt	gacctaaagt	aagttgcact	cagcatactc	agtgtcaagc	taatgaggtt	3660
ctattataaa	ggttctactt	ttaatctgag	ggaaaacatg	ttcagggctt	ctagaacact	3720
aaaaaatttg	gcttaaacca	gtgttcagtc	tggtgccaaa	cttcgaatgg	aatacaaatt	3780
cacataatct	gaactttgtt	cacaggttat	cctaataagag	taattcttca	ctttgctcta	3840
ttgaactgtc	ttaaggattt	gtttaaacag	ctaagttact	tgattaaaat	aatgataaaa	3900
ttgtattttg	tctttgcttt	aatattaaag	ttaacaagtt	ttcattttat	aatgagatca	3960
aagcattgga	atctgccttg	ttttgtagcc	gttgcttttg	atttgtgttg	gatgtatcct	4020
gcagttacac	ttgccagccc	cactcacaaa	agttgttcat	ttcattgggt	cactggcttt	4080
atttgctagt	cttgtctgtg	aactgagcat	ctgcctcagt	tttattactt	gaaatcttgg	4140
caggtgctta	ataggggaaca	tacatacagc	tatgtaactg	tgaataattg	tatatatctc	4200
tagttaagaa	tgagggaatg	gggaggtttg	ctttctaaac	aagtgcattc	tgaaattgac	4260
ttaaaaaattt	ttagtgtggg	tcctaaagtt	tagagatggg	caaggaggtc	tctaattccac	4320
cgcttcccgc	ttgagaaggg	aggggtatca	aaattgagcc	ccaagctgtt	tgttccagtg	4380
taccaagcac	tgactttatg	cctttggcct	ggagatggca	gaagtgaag	ctggccatct	4440
gcaaaaagca	gataagttag	tttgaacctt	ttgcattttg	ttagctcagt	cagtcctcat	4500
cgtggtcctg	aggcataggt	actgttgtac	caaggtcact	tatctaacaa	aataaccctt	4560
catgtatttt	aaattttattt	gacaagtctg	cagacaatcc	ttatctaacc	agctattttc	4620
ttaatttgcta	cagcttgacc	taccagtatt	ccggagtaac	cagcaaatgc	aaagttgacc	4680
ttgttctctg	atcatctttt	tgatggttca	aatttcagcc	tccctgacta	ctacaaagcc	4740
agagcagctc	tagtaccaga	aacagtgttg	cactttcgtt	gcatgtgctg	tgtagaccct	4800
aggggacagg	gagtcacttt	gtccccagta	ttgcaggtag	tctcatttga	ggtttgtgca	4860
cattccataa	gtgggggtgac	agcaaatgac	ggttggggagc	tcaggggtgtt	tatgtccacc	4920
ccagagttag	cctgtgagcc	tttgttaata	ggaatcaaat	ttctgtggtt	tttatggcca	5040
tgtctggtct	agccaaacag	tttttttctg	atgagaatag	aagctacaga	gttcttttct	5100
gaaatttttaa	ggacttgtgt	gtgctgggat	gacctccagg	tgaatggtag	gatctgagtt	5160
tgggacctag	actgggaggt	gcaatgtcag	tttcttttta	agaggaggag	gattcacttg	5220
gacctgtag	ttcggttatg	cagtcaatta	aggccttact	gtaaaactag	gggattgcct	5280
ggtgttggga	tcaaatttgg	attctgtccc	gtgtagcac	tcaatcccac	tgggaagccta	5340
ttccatatct	gctgggggtg	gagaccctta	ggcagtaggg	gaaattccac	ccaattttgc	5400
atgctgcagt	cagaagcaat	gcctggctgg	agttactaa	aaaataaaaa	tcaagtcttt	5460
tatgagccta	aaacctcttt	aaaaacggtc	gcagggacat	ctgaaagaga	cgtattaagt	5520
aggagagtag	aaaacacaa	taactaaaaa	atggaataaa	tgtatcaggt	aaaggacaag	5580
taacattttt	aaaaatccaa	atgaaaagta	acactgttta	caagagcatc	acctaaaaatg	5640
ttgtaagctt	ggattttttag	gtctagcaat	gtatagtaga	cataactaa	ccaaaaatgt	5700
tgacaaaaga	tgttgaaagg	atgaaaaaag	ttaataaagt	gtgaaagttg	tcaatcaaag	5760
agctcttttga	atctcagaaa	aaagtagatt	acacccgaac	aatagagtag	ggtttgcagt	5820
cggagtcact	tgtgttcaag	aaacaaaaaa	tctaattccac	cgcttcccgc	ttgagaaggg	5880
cttgcatagg	tgaagggtct	caaggaggtc	tgttccagtg	taccaagcac	tgactttatg	5940
aggggatcat	aaattgagcc	ccaagctgtt	ctggccatct	gcaaaagcag	ataagttagt	6000
cctttggcct	ggagatggca	gaagtgaag	agtctctcat	gtggctcct		6048
ttgaaccttt	tgcattttgt	tagctcagtc				

<210> 38

<211> 5686

<212> DNA

<213> Homo sapiens

PA-0043 US

<220>

<221> misc_feature

<223> Incyte ID No: 232888.4

<400> 38

```
gcgtctgtgg agaagcgggt tggctcggggg tggctctcgtg gggctcctgcc tgtttagtcg 60
ctttcaggggt tcttgagccc cttcacgacc gtcaccatgg aagtgtcacc attgcagcct 120
gtaaatagaaa atatgcaagt caacaaaata aagaaaaatg aagatgctaa gaaaagactg 180
tctgttgaaa gaattctatca aaagaaaaca caattggaac atattttgct cgcgccagac 240
acctacattg gttctgtgga attagtgacc cagcaaatgt gggtttacga tgaagatgtt 300
ggcatttaact atagggaagt cactttttgt cctggtttgt acaaaatctt tgatgagatt 360
ctagttaaatg ctgcgggacaa caaacaagg gacccaaaaa tgtcttgtat tagagtcaca 420
attgatccgg aaaacaattt aattagtata tggataaatg gaaaaggat tctgtgtgtt 480
gaacacaaag ttgaaaagat gtatgtccca gctctcatat ttggacagct cctaacttct 540
agtaactatg atgatgatga aaagaaagt acaggtgggt gaaatggcta tggagccaaa 600
ttgtgtaaca tattcagtag caaatttact gtggaaacag ccagtagaga atacaagaaa 660
atgttcaaac agacatggat ggataatatg ggaagagctg gtgagatgga actcaagccc 720
ttcaatggag aagattatac atgtatcacc tttcagcctg atttgtctaa gtttaaaatg 780
caaagcctgg acaagatat tgttgacata atggtcagaa gagcatatga tattgctgga 840
tccaccaag atgtcaaat ctttcttaat ggaaataaac tgccagtaaa aggatttctg 900
agttatgtgg acatgtattt gaaggacaag ttggatgaaa ctggtaactc cttgaaagta 960
atacatgaac aagtaaacca caggtgggaa gtgtgtttta ctatgagtga aaaaggcttt 1020
cagcaaatga gctttgtcaa cagcattgct acatccaagg gtggcagaca tgttgattat 1080
gtagctgatc agattgtgac taaacttggt gatgttgtga agaagaagaa caaggggtgg 1140
gttgacagtaa aagcacatca ggtgaaaaat cacatgtgga tttttgtaaa tgccttaatt 1200
gaaaacccaa ctttgactc tcagacaaaa gaaaacatga ctttacaacc caagagcttt 1260
ggatcaacat gccaatggag tgaaaaattt atcaaagctg ccattggctg tggatattga 1320
gaaagcatac taaactgggt gaagttaag gccaaagtc agttaaaca gaagtgttca 1380
gctgttaaac ataatagaat caagggaatt ccaaaactcg atgatgcaa tgatgcagg 1440
ggccgaaact ccactgagtg tacgcttacc ctgactgagg gagattcagc caaaactttg 1500
gctgttttcag gccttgggtg ggttgggaga gacaaatatg gggttttccc tcttagagga 1560
aaaatactca atgttcgaga agcttctcat aagcagatca tggaaaatgc tgagattaac 1620
aatatcatca agattgtggg tcttcagtag aagaaaaact atgaagatga agattcattg 1680
aagacgcttc gttatgggaa gataatgatt atgacagatc aggaccaaga tggttccac 1740
atcaaaggct tgctgattaa ttttatccat cacaactggc cctctcttct gcgacatcgt 1800
tttctggagg aatttatcac tcccattgta aaggtatcta aaaacaagca agaaatggca 1860
ttttacagcc ttctgaatt tgaagagtgg aagagtctca ctccaaatca taaaaaatgg 1920
aaagtcaaat attacaaagg tttgggcacc agcacatcaa aggaagctaa agaatacttt 1980
gcagatatga aaagacatcg tatccagttc aaatatctcg gtcctgaaga tgatgctgct 2040
atcagcctgg ccttttagcaa aaaacagata gatgatcgaa aggaatggtt aactaatttc 2100
atggaggata gaagacaacg aaagtactt gggcttctcg aggattactt gtatggacaa 2160
actaccacat atctgacata taatgacttc atcaacaagg aacttatctt gttctcaaat 2220
tctgataacg agagatctat cccttctatg gtggatgggt tgaaaccagg tcagagaaag 2280
gttttgttta cttgcttcaa acggaatgac aagcgagaag taaaggttgc ccaattagct 2340
ggatcagtgg ctgaaatgtc ttcttatcat catggtgaga tgtcactaat gatgaccatt 2400
atcaatttgg ccagaattt tgtggtagc aataatctaa acctottgca gccattgggt 2460
cagtttggta ccaggctaca tgggtgcaag gattctgcta gtccacgata catctttaca 2520
atgctcagct ctttggctcg attgttattt ccaccaaaag atgatcacac gttgaagttt 2580
ttatatgatg acaaccagcg tgttgagcct gaatggtaca ttcctattat tcccatgggtg 2640
ctgataaatg gtgctgaagg aatcggtact ggggtgtcct gcaaaatccc caactttgat 2700
gtgcgtgaaa ttgtaaataa catcaggcgt ttgatggatg gagaagaacc tttgccaatg 2760
cttccaagtt acaagaactt caaggggtact attgaagaac tggctccaaa tcaatatgtg 2820
attagtgggt aagtagctat tcttaattct acaaccattg aaatctcaga gcttcccgct 2880
agaacatgga ccagacata caaagaacaa gttctagaac ccatgttgaa tggcacccag 2940
aagacacctc ctctcataac agactatagg gaataccata cagataccac tgtgaaattt 3000
gttgtgaaga tgactgaaga aaaactggca gaggcagaga gaggttggact acacaaagtc 3060
ttcaaactcc aaactagtct cacatgcaac tctatggtgc tttttgacca cgtaggctgt 3120
ttaagaaat atgacacggg gttggatatt ctaagagact tttttgaact cagacttaaa 3180
tattatggat taagaaaaga atggctccta ggaatgcttg gtgctgaatc tgctaaactg 3240
aataatcagg ctgcgtttat cttagagaaa atagatggca aaataatcat tgaaaataag 3300
cctaagaaag aattaattaa agttctgatt cagaggggat atgattcgga tctgtgaag 3360
gcttgaaaag aagcccagca aaaggttcca gatgaagaag aaaatgaaga gagtgacaac 3420
```


PA-0043 US

gaaaaggaaa	ctgaaaagag	tgactccgta	acagattctg	gaccaacctt	caactatctt	3480
cttgatatgc	ccctttggta	tttaaccaag	gaaaagaaag	atgaactctg	caggctaaga	3540
aatgaaaaag	aacaagagct	ggacacatta	aaaagaaaga	gtccatcaga	tttgtggaaa	3600
gaagacttgg	ctacatttat	tgaagaattg	gaggctgttg	aagccaagga	aaaacaagat	3660
gaacaagtgc	gacttcctgg	gaaagggggg	aaggccaagg	ggaaaaaaac	acaaatggct	3720
gaagttttgc	cttctccgcg	tggtcaaaga	gtcattccac	gaataaccat	agaaatgaaa	3780
gcagaggcag	aaaagaaaaa	taaaaagaaa	attaagaatg	aaaatactga	aggaagccct	3840
caagaagatg	gtgtggaact	agaaggccta	aaacaaagat	tagaaaagaa	acagaaaaga	3900
gaaccaggta	caaagacaaa	gaaacaaact	acattggcat	ttaagccaat	caaaaaagga	3960
aagaagagaa	atccctgggtc	tgattcagaa	tcagatagga	gcagtgcaga	aagtaatttt	4020
gatgtccctc	cacgagaaac	agagccacgg	agagcagcaa	caaaaaacaa	attcacaatg	4080
gatttggatt	cagatgaaga	tttctcagat	tttgatgaaa	aaactgatga	tgaagatttt	4140
gtcccatcag	atgctagtcc	acctaagacc	aaaacttccc	caaaaacttag	taacaaagaa	4200
ctgaaaccac	agaaaagtgt	cgtgtcagac	cttgaagctg	atgatgttaa	gggcagtgtg	4260
ccactgtcct	caagccctcc	tgctacacat	ttcccagatg	aaactgaaat	tacaaaccca	4320
gttcctaaaa	agaatgtgac	agtgaagaag	acagcagcaa	aaagtcatgc	ttccacctcc	4380
actaccgggt	ccaaaaaaaag	ggctgcccc	aaaggaacta	aaagggatcc	agctttgaat	4440
tctgggtgct	ctcaaaaagcc	tgatcctgcc	aaaaccaaga	atcgccgcaa	aaggaagcca	4500
tccactttct	atgattctga	ctctaatttt	gagaaaattg	tttcgaaagc	agtcacaagc	4560
aagaaatcca	agggggagag	tgatgacttc	catatggact	ttgactcagc	tgtggctcct	4620
cgggcaaaat	ctgtacgggc	aaagaaacct	ataaagtacc	tgggaagagtc	agatgaagat	4680
gatctgtttt	aaaatgtgag	gcgattattt	taagtaatta	tcttaccag	ccaagactg	4740
gttttaaagt	tacctgaagc	tcttaacttc	ctccccctct	aatttagttt	ggggaagggt	4800
tttttagtac	aagacatcaa	agtgaagtaa	agcccaagtg	ttcttttagct	ttttataata	4860
ctgtctaaat	agtgaccatc	tcattgggcat	tgttttcttc	tctgctttgt	ctgtgttttg	4920
agtctgcttt	cttttgtctt	taaaacctga	tttttaagtt	cttctgaact	gtagaaatag	4980
ctatctgac	acttcagcgt	aaagcagtg	gtttattaac	catccactaa	gctaaaacta	5040
gagcagtttg	attttaaagt	gtcactcttc	ctccttttct	actttcagta	gatatgagat	5100
agacataat	tatctgtttt	atcttagttt	tatacataat	ttaccatcag	atagaacttt	5160
atggttctag	tacagatact	ctactacact	cagcctctta	tgtgcccaag	ttttctttta	5220
gcaatgagaa	attgctcatg	ttcttcatct	tctcaaatca	tcagaggccg	aagaaaaaca	5280
ctttggctgt	gtctataact	tgacacagtc	aatagaatga	agaaaattag	agtagttatg	5340
tgattatttc	agctcttgac	ctgtcccttc	tggctgcctc	tgagtctgaa	tctcccaaag	5400
agagaaacca	atttctaaga	ggactggatt	gcagaagact	cggggacaac	atttgatcca	5460
agatcttaaa	tgttatattg	ataaccatgc	tcagcaatga	gctattagat	tcattttggg	5520
aaatctccat	aatttcaatt	tgtaaacttt	gttaagacct	gtctacattg	ttatatgtgt	5580
gtgacttgag	taatgttatc	aacgtttttg	taaatattta	ctatgttttt	ctattagcta	5640
aattccaaca	attttgtact	ttaataaaaat	gttctaaaca	ttgcaa		5686

<210> 39

<211> 3237

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233498.11

<400> 39

cgggtccggc	cgctccgagc	ccggccgcag	cccccggtt	aaagcgggg	ctgtccggag	60
ggctcggttt	cccaccgagg	atttggcact	ctgggtgagg	ttttgggcga	aagagaaaag	120
cgagcagccg	tccttcacag	cctcagaaag	tgctcgcttc	ccttcggggc	tttcgcgaat	180
cccagggcaa	tctcggaggc	ggtatttgac	ctgtccaaag	acgacttgat	acctctataa	240
tgaacagaaa	aaggtcagaa	aatattaagc	aagtagaagt	gtggagcata	ttaagcaaga	300
tgaacatctt	gggaagcagc	tgtggaagcc	ctaactctgc	agatacatct	agtgacttta	360
aggacctttg	gacaaaacta	aaagaatgtc	atgatagaga	agtacaaggt	ttacaagtaa	420
aagtaaccaa	gctaaaacag	gaacgaatct	tagatgcaca	aagactagaa	gaattcttca	480
ccaaaaatca	acagctgagg	gaacagcaga	aagtccttca	tgaaccatt	aaagttttag	540
aagatcggtt	aagagcaggc	ttatgtgatc	gctgtgcagt	aactgaagaa	catatgcgga	600
aaaaacagca	agagtttgaa	aatatccggc	agcagaatct	taaacttatt	acagaactta	660
tgaatgaaag	gaatactcta	caggaagaaa	ataaaaagct	ttctgaacaa	ctccagcaga	720
aaattgagaa	tgatcaacag	catcaagcag	ctgagcttga	atgtgaggaa	gacgtttattc	780

PA-0043 US

cagattcacc	gataacagcc	ttctcatttt	ctggcggttaa	cgggctacga	agaaaggaga	840
accccatgt	ccgatacata	gaacaaacac	atactaaatt	ggagcactct	gtgtgtgcaa	900
atgaaatgag	aaaagtttcc	aagtcttcaa	ctcatccaca	acataatcct	aatgaaaatg	960
aaattctagt	agctgacact	tatgaccaa	gtcaatctcc	aatggccaaa	gcacatggaa	1020
caagcagcta	taccctgat	aagtcatctt	ttaatttagc	tacagttggt	gctgaaacac	1080
ttggacttgg	tgttcaagaa	gaatctgaaa	ctcaagggtcc	catgagcccc	cttgggtgatg	1140
agctctacca	ctgtctggaa	ggaaatcaca	agaaacagcc	ttttgaggaa	tctacaagaa	1200
atactgaaga	tagtttaaga	ttttcagatt	ctacttcaaa	gactcctcct	caagaagaat	1260
tacactactcg	agtgtcatct	cctgtatttg	gagctacctc	tagtatcaaa	agtgggttag	1320
atttgaatac	aagtttgtcc	ccttctcttt	tacagcctgg	gaaaaaaaaa	catctgaaaa	1380
cactcccttt	tagcaacact	tgtatatcta	gattagaaaa	aactagatca	aatctggaag	1440
atagtgcctt	tttcacacat	cacagtcttg	ggtctgaagt	gaacaagatc	attatccagt	1500
catctaataa	acagatactt	ataaataaaa	atataagtga	atccctaggt	gaacagaata	1560
ggactgagta	cggtaaagat	tctaacactg	ataaacattt	ggagccccctg	aatcatttgg	1620
gaggccgaac	atccaaaagg	aagaaaactg	aggaagaaag	tgaacatgaa	gtaagctgcc	1680
cccaagcttc	ttttgataaa	gaaaatgctt	tcccttttcc	aatggataat	cagttttcca	1740
tgaatggaga	ctgtgtgatg	gataaacctc	tggatctgtc	tgatcgattt	tcagctattc	1800
agcgtcaaga	gaaaagccaa	ggaagtgaga	cttctaaaaa	caaatttagg	caagtgactc	1860
tttatgaggc	tttgaagacc	attccaaagg	gcttttctct	aagccgtaag	gcctcagatg	1920
gcaactgcac	gttgcccaaa	gattccccag	gggagccctg	ttcacaggaa	tgcatcatcc	1980
ttcagccctt	gaataaatgc	tctccagaca	ataaacatc	attacaaata	aaagaagaaa	2040
atgctgtctt	taaaattcct	ctacgtccac	gtgaaagtgt	ggagactgag	aatgttttag	2100
atgacataaa	gagtgtctgt	tctcatgagc	caataaaaaa	acaaaccagg	tcagaccatg	2160
gaggatgtga	acttgcacat	gttcttcagt	taaatccatg	tagaactggg	aaaataaagt	2220
ctctacaaaa	caaccaagat	gtatcctttg	aaaatatcca	gtggagtata	gatccgggag	2280
cagacctttc	tcagtataaa	atggatgtta	ctgtaataga	tacaaaggat	ggcagtcagt	2340
caaaattagg	aggagagaca	gtggacatgg	actgtacatt	ggttagtgaa	accgtttctc	2400
taaaaatgaa	gaagcaagag	cagaagggag	aaaaaagtcc	aatgaagaa	agaaaaatga	2460
atgatagctt	ggaagatatg	tttgatcgga	caacacatga	agagtatgaa	tcctgtttgg	2520
cagacagttt	ctccaagca	gcagatgaag	aggaggaatt	gtctactgcc	acaaagaaac	2580
tacacactca	tggtgataaa	caagacaaag	tcaagcagaa	agcgtttgtg	gagccgtatt	2640
ttaaagggtga	tgaagagag	actagcttgc	aaaattttcc	tcattattgag	gtggttcgga	2700
aaaaagagga	gagaagaaaa	ctgcttgggc	acacgtgtaa	ggaatgtgaa	atttattatg	2760
cagatatgcc	agcagaagaa	agagaaaaga	aattggcttc	ctgctcaaga	caccgattcc	2820
gctacattcc	acccaacaca	ccagagaatt	tttgggaagt	tggttttcct	tccactcaga	2880
cttgtatgga	aagaggttat	attaaggaag	atcttgatcc	ttgtcctcgt	ccaaaaagac	2940
gtcagcctta	caacgcaata	ttttctccaa	aaggcaagga	gcagaagaca	tagacgttga	3000
aacagaaaaca	gaaggatgaa	ggacagtttt	ttccttctta	gttatttata	gttaaagtgtg	3060
gtactaaaca	ttgatttttt	tgatcttctg	taaatggatt	tataaatcag	ttttctattg	3120
aaaatgtttg	tgatattttg	cttttgcaac	tttaaaacaa	taaggcgctt	tcatttttgca	3180
ctctaactta	agagttttta	ctttatgtag	tgatacctaa	tacaattttg	aaaatac	3237

<210> 40

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233597.13

<400> 40

ataggctccg	cccctcgagg	cgttcccccc	ggaatagcgt	catcagttct	ataagagagc	60
gtgtgccgaa	ggcctcgggc	ctttcacatt	cgggaagcgt	cgggattagg	tgaaagtacg	120
tagttgtctt	tcgtaagtta	aaatgataat	tgggcccga	cttactgcct	tacctaaaag	180
gcagcgcagt	caggatattg	gtaggctggg	ggcggtttg	gaaaccctta	agttttacaag	240
catgcgcgga	cttgagtgtc	cattaggtcg	ccgggcgtcc	acgtgcagcc	ctggaccctg	300
aaccccgagg	tgcgtgggcc	gtgggcccct	ggggaaagg	tccgtgcact	cggggactcc	360
ggtgaagcct	gttcagccgt	ctgtgtcatg	tggccatctt	gagtctactc	tgtcgtctct	420
gtgccctagc	accccgagaa	cgtcagttt	gagccagatg	gaagctgagc	tgaacacatt	480
acgatggatg	atggaaacat	aagactatca	agaaatccaa	gtggtaatgg	gcgaagttta	540
ttcagcatcc	ggcaatggac	ttatcgtagt	tggggaaacg	ggtgttccga	ataatatcct	600

PA-0043 US

ggaagtattc aggacaccta ttttaaataat aggcctgaat tttgtaaagt aatattttaag 660
gtggtccgtg ataattaaat aaaatgctta attcatgtgg ct 702

<210> 41
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 233597.18

<400> 41
gtcaggatta ggtgaaagta cgtagttgtc tttcgtaagt taaaatgata attgggcccga 60
aacttactgc cttacctaaa aggcagcgca gtcaggatat cggtaggtcg ggggagggtt 120
tggaaccct taagtttaca agcatgcgcg gacttgagtg ctcattaggt cgccggggt 180
ccacgtgcag ccctggaccc tgaaccccg cgtgcgtggg ccgtgggccc tcggggaaag 240
gttcctgtca ctccgggact ccggtgaagc ctgttcagcc gtctgtgtca tgtggccatc 300
ttgagtctac tctgtcgtc ttgtgcccta gcaccccgag aaccgtcagt ttgagccaga 360
tggtagtaaa taacctgtag cagtttggtt gctggttaat tctggattgt gaatctccat 420
gtatcttttg gacctgtcag ccgtggcagt ctcccttct agccatggaa gagcatatcc 480
ttgtttattg gcaaagctgt caccatttaa ttggtatcag attctgactt gcacaagtaa 540
cattcactgt taaaaaccta gaggggtgccg ggttattggg caaaatttct aaaccgttgt 600
tcaatgtttc taggaagctg agctgaacac attacgatgg atgatggaaa cataaggtac 660
atttcttttt tgatatttct gagttaatct gaaacgcct agcggcagga cgttggaag 720
ctaaagttgg ccggttttgc tggcttttgc agtttgagtt aacaaccaac tgaattagct 780
gataagatct caaaacagtg aggttaagtac acagctcgga gttttataat gcttttttct 840
tcttcagac tatcaagaaa tccaagtggg aatgggagaa gtttattcag catccggcaa 900
tggacttata gtagttgggg aaacgggtgt tccgaataat atcctggaag ttatcaggac 960
acctatttta aatataggcc tgaattttgt aaagtaatat ttaaggtggg ccgtgataat 1020
tacataaaat gcttaattc 1039

<210> 42
<211> 2784
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 240120.3

<220>
<221> unsure
<222> 1681
<223> a, t, c, g, or other

<400> 42
ccaaaagggtg ggctttctgaa acttgagggg tgacagggat ggagaccctt ggtatggggc 60
ttagatgaag caagaggcca ggcccgaac agaactaagc tcagcagtc gtcacaaggc 120
tgacagtgta caggcggttg gggaaaggta ggaaccgctc tccgccacct gccggtcagt 180
agccctacct acaatcaggc cgcggtgcc tcggcctggt cccaaaaatt gtgaacgccg 240
ccctctctc ccgccagtc ctccgcgcg ccgcgggggt cgggggctgc gctgccggcg 300
ccgcgagccg ggcgagcttc ccagcacggg agggaggagg gggcggcgcg gggcgggcg 360
gagcttcgc gcctcctgga gccttattcc cggcgcgag ccgggcagcg ctcatcggc 420
cgaaggagct acgcgggcca cgctgctggc tggcctgacc taggcgcgcg gggtcgggcg 480
gccgcgcggg cggtctgagt gagcaagaca agacactcaa gaagagcgag ctgcgcgtgg 540
gtcccgcca ggcttgacg cagaggcggg cggcagacgg tgcccggcg aatctcctga 600
gctccgcgc ccagctctgg tgccagcgcc cagtggccgc cgcttcgaaa gtgactgggt 660
cctcgccgc tcctctcggt gcgggacct gaagctgctg ccgtcggtgg tgctgaagct 720
ctttctggct gcagttctct cggcactggg gactggcgag agcctggagc ggcttcggag 780
agggctagct gctggaacca gcaacccgga ccctccact gtatccacgg accagctgct 840
acccttagga ggcggccggg accggaaagt ccgtgacttg caagaggcag atctggacct 900

PA-0043 US

tttgagagtc	actttatcct	ccaagccaca	agcactggcc	acaccaaaca	aggaggagca	960
cgggaaaaga	aagaagaaag	gcaaggggct	aggggaagaag	agggacccat	gtcttcggaa	1020
atacaaggac	ttctgcatcc	atggagaatg	caaatatgtg	aaggagctcc	gggctccctc	1080
ctgcatctgc	cacccgggtt	accatggaga	gaggtgtcat	gggctgagcc	tcccagtgga	1140
aaatcgctta	tatacctatg	accacacaac	catcctggcc	gtggtggctg	tgggtgctgtc	1200
atctgtctgt	ctgctgggtca	tctgtgggct	tctcatgttt	aggtaccata	ggagaggagg	1260
ttatgatgtg	gaaaatgaag	agaaagtga	gttgggcatg	actaattccc	actgagagag	1320
acttgtgtgc	aaggaatcgg	ctggggactg	ctacctctga	gaagacacaa	ggtgatttca	1380
gactgcagag	gggaaagact	tccatctagt	cacaaagact	ccttcgtccc	cagttgccgt	1440
ctaggattgg	gcctcccata	attgctttgc	caaaatacca	gagccttcaa	gtgccaaaaca	1500
gagtatgtcc	gatggtatct	gggtaagaag	aaagcaaaaag	caagggacct	tcatgccctt	1560
ctgattcccc	tccaccaaac	cccacttccc	ctcataagtt	tgttttaaca	cttatcttct	1620
ggattagaat	gccgggttaa	ttccatatgc	tccaggatct	ttgactgaaa	aaaaaaaaaga	1680
ngaagaagaa	ggagagcaag	aaggaaagat	ttgtgaactg	gaagaaagca	acaaagattg	1740
agaagccatg	tactcaagta	ccaccaaggg	atctgccatt	gggaccctcc	agtgtctggat	1800
ttgatgagtt	aactgtgaaa	taccacaagc	ctgagaactg	aattttggga	cttctacca	1860
gatggaaaaa	taacaactat	ttttgtttgt	gttgttttga	aatgcctctt	aaattatata	1920
tttattttat	tctatgtatg	ttaattttat	tagtttttaa	caatctaaca	ataatatttc	1980
aagtgcctag	actgttactt	tggcaatttc	ctggccctcc	actcctcatc	cccacaatct	2040
ggcttagtgc	cacccacctt	tgccacaaag	ctaggatgg	tctgtgacct	atctgtagta	2100
atttattgtc	tgtctacatt	tctgcagatc	ttccgtggtc	agagtgccac	tgcgggagct	2160
ctgtatggtc	aggatgtagg	gggttaactt	gtcagagcca	ctctatgagt	tggacttcag	2220
tcttgccctag	gcgattttgt	ctaccatttg	tgttttgaaa	gcccaggtg	ctgatgtcaa	2280
agtgtaacag	atatcagtg	ctccccgtgt	cctctccctg	ccaagtctca	gaagagggtg	2340
ggcttccatg	cctgtagctt	tccgtggtcc	tcacccccat	ggccccaggc	ccacagcgtg	2400
ggaactcact	ttcccttg	tcaagacatt	tctctaactc	ctgccattct	tctggtgcta	2460
ctccatgcag	gggtcagtg	agcagaggac	agtctggaga	aggtattagc	aaagcaaaag	2520
gctgagaagg	aacagggaac	attggagctg	actgttcttg	gtaactgatt	acctgccaat	2580
tgctaccgag	aaggttggag	gtgggggaag	ctttgtataa	tcccaccac	ctcacaaaaa	2640
cgatgaaggt	atgctgtcat	ggctctttct	ggaagtttct	gggtgccattt	ctgaactgtt	2700
acaacttgta	tttccaaacc	tggttcata	ttatactttg	caatccaaat	aaagataacc	2760
cttattccat	aaaaaaaaa	aagg				2784

<210> 43

<211> 2409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246504.1

<400> 43

caggcttgtg	tagatcatgc	cgccagtagc	ggccctgact	gccgaggaaa	cggtagctta	60
ggacagttgg	ctgttaagtg	acactgattc	tccccgcccc	gcctgacccc	cgagaaggag	120
gcttgtcccc	cgctgcgtga	gggggtgggg	aagtgggtag	tgaattcgga	tctacctggg	180
agggggggagt	ggaagttccc	gccccggaga	gcggtgaggg	ggcagccaca	gttgattatg	240
gaagattccc	acaagagtac	cacgtcagag	acagcacctc	aacctgggtc	agcagttcag	300
ggagctcaca	tttctcatat	tgtctaacag	gtatcatctt	tatcagaaag	tgaggagtcc	360
caggactcat	ccgacagcat	aggctcctca	cagaaagccc	acgggatcct	agcacggcgc	420
ccatcttaca	gaaaaatttt	gaaagactta	tcttctgaag	atacacgggg	cagaaaagga	480
gacggagaaa	attctggagt	ttctgctgct	gtcacttcta	tgtctgttcc	aactcccatc	540
tatcagacta	gcagcggaca	gtatattgcc	attgccccaa	atggagcctt	acagttggga	600
agtccaggca	cagatggagt	acagggactt	cagacattaa	ccatgacaaa	ttcaggcagt	660
actcagcaag	gtacaactat	tcttcagtat	gcacagacct	ctgatggaca	gcagatactt	720
gtgcccagca	atcaggtgg	cgtacaaact	gcacagggag	atatgcaaac	atatcagatc	780
cgaactacac	cttcagctac	ttctctgcca	caaactgtgg	tgatgacatc	tctgtgact	840
ctcacctctc	agacaactaa	gacagatgac	ccccaatga	aaagagaaat	aagggttaatg	900
aaaaacagag	aagctgctcg	agaatgtcgc	agaaagaaga	aagaatatgt	gaaatgcctg	960
gaaaaccgag	ttgcagtcct	ggaaaatcaa	aataaaaactc	taatagaaga	gttaaaaaact	1020
ttgaaggatc	tttattccaa	taaaagtgtt	tgattcctaa	gaaagaaaat	atttttgtgg	1080
acatgcataa	aaattaaatg	gatttcctag	tggagtttta	taaattaaaa	ggtcaaaact	1140

PA-0043 US

```

gaagccttttt atttaggcctt ttccaaatca aggataaata tcttacgcac gatatctagt 1200
gacagaggag aaagtggaaa atgacctcaa ggaagctacg ggcacaactg gaagccttgt 1260
agaaattaaa catattcaag gagcaagaaa tgaactttca gcagtctaaa ttttctaaat 1320
aaccaatagt tgccaatcta aaatggcaga gaagatgaaa tttgataaac tgaatttttt 1380
ttaaaaatcc atttacccta cagggtttgca tttgtttgct gaaatttacc tttttttagt 1440
tatatatatg tgtgtgtgtg tgggtgtaatt tctgccaata aattctaaat tacaaaggta 1500
agagaaaacc tagtacatta ctaaataatat aaagtatatg ttctgattat gtatacttgt 1560
tctagtgtca agtcttttta agtgggtttt taaaagtttg ttattggact tgaatggatt 1620
tttgagacta ggttaattat ttttgaggct ttatcctaaa aggcattctaa ggtacatgaa 1680
tggagtatgg tgattttata acatttttta tcagaatgga aaaagaactg tttaaaagtt 1740
tgatactttt aaatagttgg tttttttgct tactctggta atgattttct acaaatacat 1800
aataaattgt ttttttgatt ctatatctctg tatgcagttg aatatccatt acttattctg 1860
ctgtgcttta atagaatgga atgttttacag gcccttaaaa tattattttt aaaaaacctt 1920
ctgaagatac ataccaaagt ttttccaaga agattttata atcaatttaa taatgtaagg 1980
tttatcagat tctataatag tatagttatt aaggcaattt tatgttagag actattttgt 2040
aatgtagtga gtggtacctt tataagaaaa gtgactgccca atatattttt atagctgac 2100
tttataaatt ctaatgttga gtttttaaatg attattttta atgtttatat agtttagtaa 2160
aatttgcac tcaaaagtatc attttttatat tatgggacgt tttcagattg gctaataatt 2220
gcattgtaaa ttttgtatgc agtttatcta aaattcaaaa atactgtcag tacaccagcg 2280
tttaacatct atattccaat ttgtatacag tttaaaattg tactgcaaaa ctattgtgtg 2340
ctcttacaca gtatgcac tttgtgtgtc tgtgaaatta aaggacattt gatagtctac 2400
tggaatgta 2409

```

<210> 44

<211> 3954

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 251859.2

<220>

<221> unsure

<222> 3786, 3788, 3791

<223> a, t, c, g, or other

<400> 44

```

ggacagcccc ggggccctat ggaaggcggg tcttcgcgcc ggctggggcg ggacggcgcc 60
gggcgctgcc ccggggattc gggccggctc gcggcgctg ccagtctcgg gcggcggtgt 120
ccggcgcgcg ggcggcctgc tgggcgggct gaagggttag cggagcacgg gcaaggcgga 180
gagtgcgga gtcggcgagc cccgcggcg acagggtctc tacttaaaag acaatgacta 240
ctgatgaagg tgccaagaac aatgaagaaa gccccacagc cactgttgct gagcagggag 300
aggatattac ctccaaaaaa gacaggggag tattaaagat tgtcaaaaga gtgggggaatg 360
gtgaggaaac gccgatgatt ggagacaaag tttatgtcca ttacaaagga aaattgtcaa 420
atggaaagaa gtttgattcc agtcatgata gaaatgaacc atttgtcttt agtcttggca 480
aaggccaagt catcaaggca tgggacattg ggggtgctac catgaagaaa ggagagatat 540
gccatttact gtgcaaacca gaatatgcat atggctcggc tggcagctc cctaaaattc 600
cctcgaatgc aactctcttt tttgagattg agctccttga tttcaaagga gaggatttat 660
ttgaagatgg aggcattatc cggagaacca aacggaaagg agagggatat tcaaattcaa 720
acgaaggagc aacagtagaa atccacctgg aaggccgctg tgggtggaagg atgtttgact 780
gcagagatgt ggcattcact gtgggcgaag gagaagacca cgacattcca attggaattg 840
acaaagctct ggagaaaatg cagcgggaag aacaatgtat tttatatctt ggaccaagat 900
atggttttgg agaggcaggg aagcctaaat ttggcattga acctaattgct gagcttatat 960
atgaagttac acttaagagc ttcgaaaagg ccaaagaatc ctgggagatg gataccaaag 1020
aaaaattgga gcaggctgcc attgtcaaaag agaagggaac cgtatacttc aaggagggca 1080
aatacatgca ggcggtgatt cagtatggga agatagtgtc ctggttagag atggaatatg 1140
gtttatcaga aaaggaatcg aaagcttctg aatcatttct ccttgctgcc tttctgaacc 1200
tggccatgtg ctacctgaag cttagagaat acaccaaagc tgttgaatgc tgtgacaagg 1260
cccttgact ggacagtgc aatgagaaag gcttgatatag gaggggtgaa gccagctgc 1320
tcatgaacga gtttgagtca gccaaagggtg actttgagaa agtgctggaa gtaaaccccc 1380
agaataaggc tgcaagactg cagatctcca tgtgccagaa aaaggccaag gagcacaacg 1440

```

PA-0043 US

```

agcggggaccg caggatatac gccaacatgt tcaagaagtt tgcagagcag gatgccaaagg 1500
aagaggcccaa taaagcaatg ggcaagaaga cttcagaagg ggtcactaat gaaaaaggaa 1560
cagacagtca agcaatggaa gaagagaaac ctgagggcca cgtatgacgc cacgccaaagg 1620
agggaaagagt cccagtgaac tggggccctc ctcaatgggc tttcccccac ctcaggacag 1680
aacagtgttt aatgtaaagt ttgttatagt ctatgtgatt ctggaagcaa atggcaaaac 1740
cagtagcttc caaaaaacag cccccctgct gctgcccgga gggttcactg aggggtggca 1800
cgggaccact ccagggtggaa caaacagaaa tgactgtggt gtggaggagg tgagccagca 1860
gcttaagtcc agctcatttc agtttctatc aaccttcaag tatccaattc agggtccttg 1920
gagatcatcc taacaatgtg gggctgttag gttttacctt tgaactttca tagcactgca 1980
gaaaccttta aaaaaaaaaa tgcttcatga atttctcctt tctacagttt gggtagggta 2040
ggggaaggag gataagcttt ttgtttttta atgactgaag tgctataaat gtagtctgtt 2100
gcatttttta ccaacagaac ccacagtaga ggggtctcat gtctccccag ttccacagca 2160
gtgtcacaga cgtgaaagcc agaacctcag agggcacttg cttgtctgact tagcctcctc 2220
ccaaagtccc cctcctcagc cagcctcctt gtgagagtgg ctttctacca cacacagcct 2280
gtccctgggg gagtaattct gtcattccta aaacaccctt cagcaatgat aatgagcaga 2340
tgagagtttc tggattagct tttcctatct tctgatgaag tctgagatac tgaaatgtga 2400
aaagagcaat cagaattgtg ctttttctcc cctcctctat tccttttagg gaataatatt 2460
caatacacag tacttctctc cagcattgct actgctcagc ttcttctttc attctaattc 2520
ttgctattaa gaatttaaga cttgtgctta caatatcttt gacctggagt ggatctattt 2580
acatagtcat ttaggatcca tgcagctttt tttgtctttt taagattatt ggctcataag 2640
catatgtata ctggtttatg gaactttatt tacactcctc tatcatgcaa aaaaattttg 2700
actttttagt actaagctta atttttaaaa acaaaatctg taggggtgac aaataaatag 2760
ttgctcttct acactagggg tttcacctgc aggtttgaca cgcagttgct cgcttttctc 2820
gccctgtcaa gcttctctgt tctggcgtga gttgtgaaag agttgaagac agcttcccat 2880
gccggtacac agccagtagc cttaaactcc agtacttgag ctgaccattg aactagggca 2940
agtcttaaat gtgtacatgt agttgaattt cagtccttac gggtaaacag attgagcatg 3000
gctctctatt ccctcagcct aagaaacact catgggaatg catttggaac cccaaggaac 3060
catttgctta aacctggaac atctcacctt tttaaactct aaaaaacact ggcagttata 3120
ttttaaatga gtttttattt ttatgatggt tttatcaaaa gacttttatt attagattgg 3180
gaccctcttc aaacctaaaa atcaagttat ttctttttat aatacttttc ttccccatgg 3240
aacaatggg atcaatttgt gagttttttc ctttaattgat aactaaaatc cctctaattt 3300
ctcatttatg cttttgtctt ttttatgaaa tatttctttt aaaagcccca gtctcaccta 3360
cgaaatatga agagcaaaag ctgattttgc ttacttgcta aactggtggg aaagctctgt 3420
agagcatggt tccagtggag ccaagattga aatttgatac taaaaaggcc acctagcttt 3480
ttgcagataa caaacaagaa agctattcca agactcagat gatgccagct gtctcccacg 3540
tgtgtattat ggttcaccag ggggaactgg caaaagtgtg tgtggggagg ggaagggtgt 3600
gtgagtgggt ctgagcaaat aactacaggg tgcccattac cactcaagaa gacacttcac 3660
gtattcttgt atcaaatcca ataactttaa acaatttggt tagaagtcca cagacatctt 3720
tcaaccacct tttaggctgc atatggattg ccaagtcagc atatgaggaa ttaaagacat 3780
tgtttntnaa naaaaaaaat catttagatg cacttttttg tgtgttcttt aaataaatcc 3840
aaaaaaaatg tgacttccca ttgtttttgg ttttgcttaa gtgattttca gggaaagcta 3900
tattggttaa aaaaccatgg tgggggccaa cttgaagaaa ttagacatca gaga 3954

```

<210> 45

<211> 1823

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 252855.2

<400> 45

```

gcggcacggt tgttctctgcc tctccgccac ctccaccgcg gcttagcccc tggctggcgg 60
cagcggttgt tcctgcctct ccgccacctc caccgcggtc tatcccttgg ctggcggtgt 120
tggcggggag ggggacagta gttgtagacg cccgccccctg cctcagagaa gataccacat 180
tgaatgaaca aagactgaac tttgtttaca gatacctttt ataaaagatg tctgtggagt 240
agtgttacag ttcaaataac aaaggatttt gcattatgag atgagtgaga gtggagaatt 300
ggacaaaaat tgatttttga tctctgaatt gtgggtttta gctcaccagt tattgtgtag 360
tctcactatt tgaaaattca tgctgaaaaa ctgagtgaat atgatcagat ttctccacca 420
aattctcagc ctgataagga aaatcccggt ttgtcaacct aatgaagcat tcaaagaaga 480
catatgactc ttttcaagat gaacttgaag attatattaa agtacagaaa gccagaggct 540

```

PA-0043 US

tagagccaaa	gacttgtttc	agaaagatga	aaggggacta	tttggaaaacc	tgtgggtaca	600
aaggagaggt	taattccaga	cccacgtata	gaatgtttga	ccagagactc	ccatctgaaa	660
ccatccagac	ctaccaaga	tcattgcaata	ttccacaaac	agtggaaaat	cggttgcctc	720
agtgggtacc	agcccatgac	agcagattga	gactagactc	tctgagctac	tgtcagttca	780
cgagggactg	tttctcagaa	aaaccagtac	ccctgaactt	taatcaacaa	gaatatattt	840
gtgggtcaca	tgggtgtagaa	catagagttt	acaagcactt	ctcctcagat	aacagtacca	900
gtactcatca	agccagtcac	aaacagatac	atcagaagag	gaaaaggcac	ccagaggaag	960
gcagagaaaa	atcagaggag	gagcgggtcta	agcataagag	aaaaaaaaagc	tgcgaggaaa	1020
ttgacttaga	caaacacaa	agcatccaaa	gaaagaaaac	agaggtggaa	atagaaaccg	1080
tacatgtcag	tacagaaaa	cttaagaatc	gaaaggagaa	aaaaagccga	gatgtagtct	1140
ctaagaaa	ggaacgtaag	cgtacaaaaa	agaaaaagga	acaaggccaa	gaaaggacag	1200
aggaggaaat	gctttgggac	cagtctattc	ttggattttg	aagctttcaa	agttggttct	1260
cccaaagtta	aattgaaaaa	ataggtgaga	gcttgggtttt	atgatatccg	tgttcatacc	1320
acttttctta	tgtgaatagg	ttctttaact	tctaacaag	gcctagtaaa	caaagtgttt	1380
agcatgcttg	ctctccaaca	cagaaattgc	ttttcctcat	tttctaaaag	cattattaca	1440
ttttttgaac	atatagtgtg	atcttcttta	atgaaagtga	ctctgctttt	attcatcaaa	1500
ttgctttgat	ggtggaaata	ttttctgttg	ggaggttatt	tatttttaaat	tggaggatta	1560
atgacctttg	cacaatctgt	ttcttgattg	ggtttgttat	agttttgagt	tgggtatttt	1620
atgttcattg	gtttttctct	gtgaagcaat	ttttttctcc	tttattagat	ctaacttgca	1680
gtgtattttc	taggctggaa	agtggaaaat	gaaatatatt	ataatcttag	gttacataaa	1740
gtttctaaag	tttcaaagag	tcttgatata	aaatcagttt	atattctgaa	aatattttata	1800
ataaagtatt	ctaattttcta	aaa				1823

<210> 46

<211> 4496

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 271804.3

<400> 46

ggagcacgtc	caggaactcc	tcagcagcgc	ctccttcagc	tccacagcca	gacgcctca	60
gacagcaaag	cctacccccg	cgccgcgcgc	tgcgcgcgcg	tgcgatgctc	gcccgcgcgc	120
tgctgctgtg	cgcggtcctg	gcgctcagcc	atacagcaaa	tccttgctgt	tcccaccat	180
gtcaaaaccg	agggtgatgt	atgagtgtgg	gatttgacca	gtataagtgc	gattgtacc	240
ggacaggatt	ctatggagaa	aactgctcaa	caccggaatt	tttgacaaga	ataaaattat	300
ttctgaaacc	cactccaaac	acagtgcact	acatacttac	ccacttcaag	ggattttgga	360
acgttgtgaa	taacattccc	ttccttcgaa	atgcaattat	gagttatgtg	ttgacatcca	420
gatcacatth	gattgacagt	ccaccaactt	acaatgctga	ctatggctac	aaaagctggg	480
aagccttctc	taacctctcc	tattatacta	gagcccttcc	tcctgtgcct	gatgattgcc	540
cgactccctt	gggtgtcaaa	ggtaaaaagc	agcttcctga	ttcaaattag	attgtggaaa	600
aattgcttct	aagaagaaag	ttcatccctg	atccccagg	ctcaaactat	atgtttgcat	660
tctttgcccc	gcacttcacg	catcagtttt	tcaagacaga	tcataagcga	gggccagctt	720
tcaccaacgg	gctgggccat	gggtggagct	taaatcatat	ttacgggtgaa	actctggcta	780
gacagcgtaa	actgcgcctt	ttcaaggatg	gaaaaaatgaa	atatcagata	attgatggag	840
agatgtatcc	tcccacagtc	aaagatactc	aggcagagat	gatctaccct	cctcaagtcc	900
ctgagcatct	acggtttgct	gtggggcagg	aggtcttttg	tctggtgcct	ggtctgatga	960
tgtatgccac	aatctggctg	cggaacacac	acagagtatg	cgatgtgctt	aaacaggagc	1020
atcctgaatg	gggtgatgag	cagttgttcc	agacaagcag	gctaatactg	ataggagaga	1080
ctattaagat	tgtgattgaa	gattatgtgc	aacacttgag	tggctatcac	ttcaaactga	1140
aatttgaccc	agaactactt	ttcaacaaac	aattccagta	ccaaaatcgt	attgctgctg	1200
aatttaacac	cctctatcac	tggcatcccc	ttctgcctga	cacctttcaa	attcatgacc	1260
agaaatataca	ctatcaacag	tttatctaca	acaactctat	attgctggaa	catggaatta	1320
cccgattttgt	tgaatcattc	accaggcaaa	ttgctggcag	ggttgctggg	ggttaggaatg	1380
ttccaccgcg	agtacagaaa	gtatcacagg	cttccattga	ccagagcagg	cagatgaaat	1440
accagtcttt	taatgagtac	cgcaaacgct	ttatgctgaa	gccctatgaa	tcatttgaag	1500
aacttacagg	agaaaaggaa	atgtctgcag	agttggaagc	actctatggg	gacatcgatg	1560
ctgtggagct	gtatcctgcc	cttctggtag	aaaagcctcg	gccagatgcc	atctttgggtg	1620
aaaccatggt	agaagttgga	gcaccattct	ccttgaaaag	acttatgggt	aatgtttatat	1680
gttctcctgc	ctactggaag	ccaagcactt	ttggtggaga	agtgggtttt	caaatcatca	1740

PA-0043 US

```

acactgcctc aattcagtc ctcactctgca ataacgtgaa gggctgtccc tttacttcat 1800
tcagtgttcc agatccagag ctcattaaaa cagtcacccat caatgcaagt tcttcccgc 1860
ccggactaga tgatatcaat cccacagtac tactaaaaga acgttcgact gaactgtaga 1920
agtctaata tcatatttat ttattttatat gaaccatgtc tattaattta attattttaa 1980
aatatttata ttaaactcct tatgttactt aacatcttct gtaacagaag tcagtactcc 2040
tgttgcggag aaaggagtc tacttgtgaa gacttttatg tcactactct aaagattttg 2100
ctgttgctgt taagtttgga aaacagtttt tattctgttt tataaaccag agagaaatga 2160
gttttgacgt ctttttactt gaatttcaac ttatattata agaacgaaag taaagatgtt 2220
tgaatactta aacactgtca caagatggca aaatgctgaa agtttttaca ctgtcgatgt 2280
ttccaatgca tcttccatga tgcattagaa gtaactaatg tttgaaattt taaagtactt 2340
ttggttattt ttctgtcatc aaacaaaaac aggtatcagt gcattattaa atgaatattt 2400
aaattagaca ttaccagtaa tttcatgtct actttttaaa atcagcaatg aaacaataat 2460
ttgaaatttc taaattcata gggtagaatc acctgtaaaa gcttgtttga tttcttaaag 2520
ttattaaact tgtacatata ccaaaaagaa gctgtcttgg atttaaactc gtaaaatcag 2580
tagaaatttt actacaattg cttgttaaaa tattttataa gtgatgttcc tttttcacca 2640
agagtataaa cttttttagt gtgactgtta aaacttcctt ttaaatcaaa atgccaaatt 2700
tattaaggty gtggagccac tgcagtgtta tcttaaaata agaataattt gttgagatat 2760
tccagaattt gtttatatgg ctggtaacat gtaaaatcta tatcagcaa agggtctacc 2820
tttaaaataa gcaataacaa agaagaaaaa caaattattg ttcaaattta ggtttaaact 2880
tttgaagcaa actttttttt atccttgtgc actgcaggcc tggactcag attttgctat 2940
gaggttaatg aagtaccaag ctgtgcttga ataacgatat gttttctcag attttctgtt 3000
gtacagttaa atttagcagt ccatatcaca ttgcaaaagt agcaatgacc tcataaaata 3060
cctcttcaaa atgcttaaat tcatttcaca cattaatttt atctcagtct tgaagccaat 3120
tcagtaggtg cattggaatc aagcctggct acctgcagtc tgttcctttt cttttcttct 3180
tttagccatt ttgctaagag acacagtcct ctcactactt cgtttctcct attttgtttt 3240
actagtttta agatcagagt tcactttctt tggactctgc ctatattttt ttacctgaac 3300
ttttgcaagt tttcaggtaa acctcagctc aggactgcta tttagctcct cttagaaga 3360
ttaaaagaga aaaaaaaagg ccttttttaa aatagtatac acttatttta agtgaaaagc 3420
agagaatttt atttatagct aatttttagct atctgttaacc aagatggatg caaagaggct 3480
agtgcctcag agagaactgt acgggggttg tgaactggaaa aagttacgtt cccattctaa 3540
ttaatgccct ttcttattta aaaacaaaac caaatgatat ctaagtagtt ctcagcaata 3600
ataataatga cgataatact tcttttccac atctcattgt cactgacatt taatggtagt 3660
gtatattact taatttattg aagattatta tttatgtctt attaggacac tatgggtata 3720
aactgtgttt aagcctacaa tcattgattt ttttttgtaa tgtcacaaatc agtatatttt 3780
ctttgggggtt acctctctga atattatgta aacaatccaa agaaatgatt gtattaagat 3840
ttgtgaataa atttttagaa atctgattgg catattgaga tatttaagggt tgaatgtttg 3900
tccttaggat aggctatgt gctagcccac aaagaatatt gtctcattag cctgaatgtg 3960
ccataagact gaccttttaa aatgttttga gggatctgtg gatgcttcgt taatttggtc 4020
agccacaatt tattgagaaa atattctgtg tcaagcactg tgggttttaa tattttttaa 4080
tcaaacgctg attacagata atagtattta tataaataat tgaaaaaaat tttcttttgg 4140
gaagaggagg aaaatgaaat aaatatcatt aaagataact caggagaatc ttctttacaa 4200
ttttacgttt agaatgttta aggttaagaa agaaatagtc aatatgcttg tataaaacac 4260
tgttcactgt ttttttcaaa aaaaaaactt gatttgttat taacattgat ctgctgacaa 4320
aacctgggaa tttgggttgt gtatgcgaat gtttcagtgc ctcagacaaa tgtgtattta 4380
acttatgtaa aagataagtc tggaaataaa tgtctgttta tttttgtact atttaaaaat 4440
tgacagatct tttctgaaga taaactttga ttgtttctat acatctttgt catatg 4496

```

<210> 47

<211> 2062

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 335942.3

<400> 47

```

agctgccagc cagagaggga gtcatttcat tggcgtttga gtcagcaaag aagtcaagat 60
ggccaaagtt ccagacatgt ttgaagacct gaagaactgt tacagtgaat atgaagaaga 120
cagttcctcc attgatcatc tgtctctgaa tcagaaatcc ttctatcatg taagctatgg 180
cccactccat gaaggctgca tggatcaatc tgtgtctctg agtatctctg aaacctctaa 240
aacatccaag cttaccttca aggagagcat ggtggttagta gcaaccaacg ggaaggttct 300

```


PA-0043 US

```

gaagaagaga cggttgagtt taagccaatc catcactgat gatgacctgg aggccatcgc 360
caatgactca gaggaagaaa tcatcaagcc taggtcagca ccttttagct tcctgagcaa 420
tgtgaaatac aactttatga ggatcatcaa atacgaattc atcctgaatg acgccctcaa 480
tcaaagtata attcgagcca atgatcagta cctcacggct gctgcattac ataactctgga 540
tgaagcagtg aaatttgaca tgggtgctta taagtcatca aaggatgatg ctaaaattac 600
cgtgattcta agaattctcaa aaactcaatt gtatgtgact gcccaagatg aagaccaacc 660
agtgtctgtg aaggagatgc ctgagatacc caaaaccatc acaggtagtg agaccaacct 720
cctcttcttc tgggaaactc acggcactaa gaactatttc acatcagttg cccatccaaa 780
cttgtttatt gccacaaagc aagactactg ggtgtgcttg gcaggggggc caccctctat 840
cactgacttt cagatactgg aaaaccaggc gtaggtctgg agtctcactt gtctcacttg 900
tgcagtgttg acagttcata tgtaccatgt acatgaagaa gctaaatcct ttactgttag 960
tcatttgctg agcatgtact gagccttgta attctaaatg aatgtttaca ctctttgtaa 1020
gagtggaaac aacactaaca tataatgttg ttattttaaag aacaccctat attttgcata 1080
gtaccaatca ttttaattat tattcttcat aacaatttta ggaggaccag agctactgac 1140
tatggctacc aaaaagactc taccatatt acagatgggc aaattaaggc ataagaaaac 1200
taagaaatat gcacaatagc agttgaaaca agaagccaca gacctaggat ttcatgattt 1260
catttcaact gtttgcttcc tacttttaag ttgctgatga actcttaatc aaatagcata 1320
agtttctggg acctcagttt tatcattttc aaaatggagg gaataatacc taagccttcc 1380
tgccgcaaca gttttttatg ctaactcaggg aggtcatttt ggtaaaatac ttcttgaaagc 1440
cgagctctca gatgaaggca aagcacgaaa tgttattttt taattattat ttatatatgt 1500
atttataaat atattttaaga taattataat atactatatt tatgggaacc ctttcatcct 1560
ctgagtgtga ccagggcac cccacaata gcagacagtg ttttctggga taagtaagtt 1620
tgatttcatt aatacagggc attttgggtc aagttgtgct tatcccatag ccaggaaact 1680
ctgcattcta gtacttggga gacctgtaat catataataa atgtacatta attaccttga 1740
gccagtaatt ggtccgatct ttgactcttt tgccattaaa cttacctggg cattcttgtt 1800
tcattcaatt ccacctgcaa tcaagtccta caagctaaaa ttagatgaac tcaactttga 1860
caaccatgag accactgtta tcaaaacttt cttttctgga atgtaatcaa tgtttcttct 1920
aggttctaaa aattgtgatc agaccataat gttacattat tatcaacaat agtgattgat 1980
agagtgttat cagtcataac taaataaagc ttgcaagtga gggagtcatt tcattggcgt 2040
ttgagtcagc aaagaagtca ag

```

<210> 48

<211> 1160

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 348196.60

<220>

<221> unsure

<222> 718, 729, 736, 747, 758, 764, 774, 796

<223> a, t, c, g, or other

<400> 48

```

gtgggcctct gcggcatggt atttaatcgt ctccccgggg agattcgttc tcatttttct 60
actgtctgtg gattttacgcg cacgttggaa ccgaagagag ctctgttggt gcaatgttca 120
gccacaaga gcttactggt gaaggaatgg gacaagaccc atctttatgc aaagccagcg 180
ttacagtaat gttccagcat ctcataatct atcctgggga attcagctgc ctcccagggt 240
gaatacaggt attcctgatg acagtctgcc tctatcttac agagcagctt gttgctatat 300
accattgaaa agccttcaga gctgagaggt actactaacc aataacctgc ttggctcaaa 360
gggccagcac cttctctcta aagcccaaga ggagtttgag gaaaactagg tgtctgtgtt 420
cactccaggc tgaagttaca ggtctgagca aataagggtg ataaaaaatg gaatctgtct 480
tggaggacat cagaagggtga attttccaag ttcttggaac acctagctgt tgaaaagctt 540
tctgggtttg ggggttattt cagatgtacc ttaaagtgtt agcagacaca gattaagaca 600
ctgggagcca atgaaacagc agttgagggt ttgctgtgta tcacatttct gtattttatc 660
accccttcc tgcaacatta tttatctgga atctacctgc ctttttgttt tttagatnca 720
agggcttгна tttgtnacc aggtcgnntt caaggcenta gctntaagag atcntctcac 780
cacagatttc caaagngctg tgattcaggt gtgattcatg gcaccagac tttgctgcct 840
ttcttacatg atccaggccc agaaccctaa ctcaggcact gtatagatga ccactttcgt 900
aaactactga cctagcttgt tgccaattgt tgattgaact tcccataact ccacttcgtg 960

```

PA-0043 US

tctgttcctc	tgtatacagc	caccttctgt	tcctgtcatg	agccttttagg	tctccatttg	1020
catattgcaa	atactatggt	ccatgtaggt	agctcattca	gggccttgct	cttcacttca	1080
aaaaagggtc	ccttgaggac	tggtgtgcaa	tttgtgttgc	tgtgttggtt	gttgatgaaa	1140
ataataaaat	gattgattac					1160

<210> 49

<211> 12632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 412661.2

<400> 49

cgccccggga	cgtagcctgt	agggccaccg	gggtccccgtc	agaggcgggcg	gcgggagcag	60
cggggactgc	aggccggggg	gcagcgaacg	cgacccccgcg	ggctgcgggcc	cgggtgtgtgc	120
ggagcgtggc	gggcgcagct	taccggggcg	aggtgagcgc	ggcgccggct	cctcctgcgg	180
cggacttggg	tgcgacttga	cgagcgggtg	ttcgacaagt	ggccttgccg	gccggatcgt	240
ccagctggaa	gagttgttaa	tttgcttctg	gccttccctt	acggattata	cctggccttc	300
ccctacggat	tatactcaac	ttactgttta	gaaaatgtgg	cccacgagac	gcctgggttac	360
tatcaaaagg	agcgggggtc	acggtcccca	ctttcccttg	agcctcagca	cctgcttgtt	420
tggaaggggt	attgaatgtg	acatccgtat	ccagcttccct	gttgtgtcaa	aacaacattg	480
caaaattgaa	atccatgagc	aggaggcaat	attacataat	ttcagttcca	caaatacaac	540
acaagtaaat	gggtctgtta	ttgatgagcc	tgtacggcta	aaacatggag	atgtaataac	600
tattattgat	cgttccttca	ggtatgaaaa	tgaaagtctt	cagagtggaa	ggaagtcaac	660
tgaatttcca	agaaaaatac	gtgaacagga	gccagcacgt	cgtgtctcaa	gatctagctt	720
ctcttctgac	cctgatgaga	aagctcaaga	ttccaaggcc	tattcaaaaa	tcactgaagg	780
aaaagtttca	ggaatatcctc	aggtacatat	caagaatgtc	aaagaagaca	gtaccgcaga	840
tgactcaaaa	gacagtgttg	ctcagggaac	aactaatgtt	cattcctcag	aacatgctgg	900
acgtaatggc	agaaatgcag	ctgatcccat	ttctggggat	tttaaagaaa	tttccagcgt	960
taaattagtg	agccgttatg	gagaattgaa	gtctgttccc	actacacaat	gtcttgacaa	1020
tagcaaaaaa	aatgaatctc	ccttttgtaa	gctttatgag	tcagtgaaga	aagagttgga	1080
tgtaaaatca	caaaaagaaa	atgtcctaca	gtattgtaga	aaatctggat	tacaaactga	1140
ttacgcaaca	gagaaagaaa	gtgctgatgg	tttacagggg	gagacccaac	tggttggtctc	1200
gcgtaagtca	agaccaaaat	ctggtggggag	cggccacgct	gtggcagagc	ctgcttcacc	1260
tgaacaagag	cttgaccaga	acaaggggaa	gggaagagac	gtggagtctg	ttcagactcc	1320
cagcaaggct	gtgggcgcca	gctttcctct	ctatgagccg	gctaaaatga	agaccctgtt	1380
acaatattca	cagcaacaaa	attctccaca	aaaacataag	aacaaagacc	tgtatactac	1440
tggtagaaga	gaatctgtga	atctgggtaa	aagtgaaggc	ttcaaggctg	gtgataaaac	1500
tcttactccc	aggaagcttt	caactagaaa	tcgaacacca	gctaaagttg	aagatgcagc	1560
tgactctgcc	actaagccag	aaaatctctc	ttccaaaacc	agaggaagta	ttcctacaga	1620
tgtggaagtt	ctgcctacgg	aaactgaaat	tcacaatgag	ccatttttaa	ctctgtggct	1680
cactcaagtt	gagaggaaga	tccaaaagga	ttccctcagc	aagcctgaga	aattggggcac	1740
tacagctgga	cagatgtgct	ctgggttacc	tggcttagt	tcagttgata	tcaacaactt	1800
tggtgattcc	attaatgaga	gtgagggagt	accttgaaa	agaaggcgtg	tgtcctttgg	1860
tgggcaccta	agacctgaac	tatttgatga	aaacttgcc	cctaatacgc	ctctcaaaag	1920
gggagaagcc	ccaaccaaaa	gaaagtctct	ggtaatgcac	actccacctg	tcctgaagaa	1980
aatcatcaag	gaacagcctc	aaccatcagg	aaaacaagag	tcaggttcag	aaatccatgt	2040
ggaagtgaag	gcacaaaagc	tggttataag	ccctccagct	cctagtccta	ggaaaactcc	2100
agttgccagt	gatcaacgcc	gtaggtcctg	caaaacagcc	cctgcttcca	gcagcaaatc	2160
tcagacagag	gttcttaaga	gaggagggag	aaagagtggc	aacctgcctt	caaagagagt	2220
gtctatcagc	cgaagtcaac	atgatatttt	acagatgata	tgttccaaaa	gaagaagtgg	2280
tgcttccgaa	gcaaatctga	ttgttgcaaa	atcatgggca	gatgtagtaa	aacttgggtc	2340
aaaacaataa	caaaactaaag	tcataaaaaca	tggtcctcaa	aggtcaatga	acaaaaggca	2400
aagaagacct	gctactccaa	agaagcctgt	gggcgaagtt	cacagtcaat	ttagtacagg	2460
ccacgcaaac	tctccttgta	ccataataat	agggaaagct	catactgaaa	aagtacatgt	2520
gcctgctcga	ccctacagag	tgctcaacaa	cttcatttcc	aacccaaaaa	tggactttta	2580
ggaagatctt	tcaggaatag	ctgaaatgtt	caagacccca	gtgaaggagc	aaccgcagtt	2640
gacaagcaca	tgtcacatcg	ctatttcaaa	ttcagagaa	ttgcttggaa	aacagtttca	2700
aggaactgat	tcaggagaag	aacctctgct	ccccacctca	gagagttttg	gaggaaatgt	2760
gttcttcagt	gcacagaatg	cagcaaaaaca	gccatctgat	aatgctctct	caagccctcc	2820

cttaagacg	cagtgtatta	gagaaaaatgg	aaacgtagca	aaaacgcca	ggaacaccta	2880
caaaatgact	tctctggaga	caaaaacttc	agatactgag	acagagcctt	caaaaacagt	2940
atccactgta	aacaggctcag	gaagggtctac	agagttcagg	aatatacaga	agctacctgt	3000
ggaaagtaag	agtgaagaaa	caaatacaga	aattgttgag	tgcattccta	aaagagggtca	3060
gaaggcaaca	ctactacaac	aaaggagaga	aggagagatg	aaggaaatag	aaagaccttt	3120
tgagacatat	aaggaaaata	ttgaattaaa	agaaaacgat	gaaaagatga	aagcaatgaa	3180
gagatcaaga	acttggggggc	agaaatgtgc	accaatgtct	gacctgacag	acctcaagag	3240
cttgctgat	acagaactca	tgaaagacac	ggcacgtggc	cagaatctcc	tccaaaccca	3300
agatcatgcc	aaggcaccaa	agagtggaga	aggcaaaatc	actaaaatgc	cctgccagtc	3360
attacaacca	gaaccaataa	acaccccaac	acacacaaaa	caacagttga	aggcatccct	3420
ggggaaagta	ggtgtgaaag	aagagctcct	agcagtcggc	aagttcacac	ggacgtcagg	3480
ggagaccacg	cacacgcaca	gagagccagc	aggagatggc	aagagcatca	gaacgtttaa	3540
ggagtctcca	aagcagatcc	tggacccagc	agcccgtgta	actggaatga	agaagtggcc	3600
aagaacgcct	aaggaagagg	cccagtcact	agaagacctg	gctggcttca	aagagctctt	3660
ccagacacca	ggtccctctg	aggaatcaat	gactgatgag	aaaactacca	aaatagcctg	3720
caaatctcca	ccaccagaat	cagtggacac	tccaacaagc	acaaagcaat	ggcctaagag	3780
aagtctcagg	aaagcagatg	tagaggaaga	attcttagca	ctcaggaaac	taacaccatc	3840
agcagggaaa	gccatgctta	cgcccaaacc	agcaggaggt	gatgagaaa	acattaaagc	3900
atltatggga	actccagtgc	agaaactgga	cctggcagga	actttacctg	gcagcaaaag	3960
acagctacag	actcctaagg	aaaaggccca	ggctctagaa	gacctggctg	gcttttaaga	4020
gctcttccag	actcctggtc	acaccgagga	attagtggct	gctggtaaaa	ccactaaaat	4080
acctgcgac	tctccacagt	cagacccagt	ggacacccca	acaagcaca	agcaacgacc	4140
caagagaagt	atcaggaaag	cagatgtaga	gggagaactc	ttagcgtgca	ggaatcta	4200
gccatcagca	ggcaaagcca	tgacacgcc	taaaccatca	gtaggtgaag	agaaagacat	4260
catcatat	gtgggaactc	cagtgcagaa	actggacctg	acagagaact	taaccggcag	4320
caagagacg	ccacaaactc	ctaaggaaga	ggcccaggct	ctggaagacc	tgactggctt	4380
taaaagctc	ttccagaccc	ctggctcatac	tgaagaagca	gtggctgctg	gcaaaactac	4440
taaaatgcc	tgcgaatctt	ctccaccaga	atcagcagac	acccaacaa	gcacaagaag	4500
gcagcccaag	acacctttgg	agaaaaggga	cgtacagaag	gagctctcag	ccctgaagaa	4560
gctcacacag	acatcagggg	aaaccacaca	cacagataaa	gtaccaggag	gtgaggataa	4620
aagcatcaac	gcgttttaggg	aaactgcaaa	acagaaactg	gacccagcag	caagtgtaac	4680
tggtagcaag	aggcacccaa	aaactaagga	aaaggcccaa	cccctagaag	acctggctgg	4740
cttgaaagag	ctcttccaga	caccagtatg	cactgacaag	cccacgactc	acgagaaaac	4800
tacaaaaata	gcttgcagat	cacaaccaga	cccagtggac	acaccaacaa	gctccaagcc	4860
acagtccaag	agaagtctca	ggaaagtgga	cgtagaagaa	gaattcttcg	cactcaggaa	4920
acgaacacca	tcagcaggca	aagccatgca	cacacccaaa	ccagcagtaa	gtggtgagaa	4980
aaacatctac	gcatttatgg	gaactccagt	gcagaaactg	gacctgacag	agaacttaac	5040
tggcagcaag	agacgggtac	aaactcctaa	ggaaaaggcc	caggctctag	aagacctggc	5100
tggctttaa	gagctcttcc	agacacgagg	tcacactgag	gaatcaatga	ctaacgataa	5160
aactgccaaa	gtagcctgca	aatcttcaca	accagacctc	gacaaaaacc	cagcaagctc	5220
caagcgacg	ctcaagacat	ccctggggaa	agtgggcgtg	aaagaagagc	tcctagcagt	5280
tggcaagctc	acacagacat	caggagagac	tacacacaca	cacacagagc	caacaggaga	5340
tggtaagagc	atgaaagcat	ttatggagtc	tccaaagcag	atcttagact	cagcagcaag	5400
tctaactggc	agcaagaggc	agctgagaac	tctaaggga	aagtctgaag	tcctgaaga	5460
cctggccggc	ttcatcgagc	tcttccagac	accaagtcc	actaaggaat	caatgactaa	5520
tgaaaaaact	accaaagtat	cctacagagc	ttcacagcca	gacctagtgg	acacccaac	5580
aagctccaag	ccacagccca	agagaagtct	caggaaagca	gacactgaag	aagaattttt	5640
agcatttagg	aaacaaacgc	catcagcagg	caaagccatg	cacacaccca	aaccagcagt	5700
aggtgaagag	aaagacatca	acacgttttt	gggaactcca	gtgcagaaac	tggaccagcc	5760
aggaaattta	cctggcagca	atagacggct	acaaactcgt	aaggaaaagg	cccaggctct	5820
agaagaactg	actggcttca	gagagctttt	ccagacacca	tgcactgata	accccacgac	5880
tgatgagaaa	actaccaaaa	aaatactctg	caaattctccg	caatcagacc	cagcggacac	5940
cccaacaaac	acaaagcaac	ggcccaagag	aagcctcaag	aaagcagacg	tagaggaaga	6000
atlttttagca	ttcaggaaac	taaccaccatc	agcaggcaaa	gccatgcaca	cgcctaaagc	6060
agcagttagt	gaagagaaaag	acatcaaacac	atlttggtggg	actccagtgg	agaaacttga	6120
cctgctagga	aattttacctg	gcagcaagag	acggccacaa	actcctaaag	aaaaggccaa	6180
ggctctagaa	gatctggctg	gcttcaagaa	gctcttccag	acaccaggctc	acactgagga	6240
atcaatgacc	gatgacaaaa	tcacagaagt	atcctgcaaa	tctccacaac	cagacccagt	6300
caaaacccca	acaagctcca	agcaacgact	caagatatcc	ttggggaaag	taggtgtgaa	6360
agaagaggtc	ctaccagtcg	gcaagctcac	acagacgtca	gggaagacca	cacagacaca	6420
cagagagaca	gcaggagatg	gaaagagcat	caaagcgttt	aaggaatctg	caaagcagat	6480
gctggaccca	gcaaaactatg	gaactgggat	ggagaggtgg	ccaagaacac	ctaaggaaga	6540

ggcccaatca	ctagaagacc	tggccggtt	caaagagctc	ttccagacac	cagaccacac	6600
tgaggaatca	acaactgatg	acaaaactac	caaaatagcc	tgcaaattctc	caccaccaga	6660
atcaatggac	actccaacaa	gcacaaggag	gcggtcccaa	acacctttgg	ggaaaaggga	6720
tatagtggaa	gagctctcag	ccctgaagca	gtcacacacg	accacacaca	cagacaaagt	6780
accaggagat	gaggataaag	gcatcaacgt	gttcagggaa	actgcaaaac	agaaactgga	6840
cccagcagca	agtgttaactg	gtagcaagag	gcagccaaga	actcctaagg	gaaaagccca	6900
acccttagaa	gacttggctg	gcttgaaaga	gctcttccag	acaccaatat	gcactgacaa	6960
gcccacgact	catgagaaaa	ctaccaaaaat	agcctgcaga	tctccacaac	cagaccagct	7020
gggtacccca	acaattcttca	agccacagtc	caagagaagt	ctcaggaaag	cagacgtaga	7080
ggaagaatcc	ttagcactca	ggaacgaac	accatcagta	gggaaagcta	tggacacacc	7140
caaaccagca	ggaggtgatg	agaaagacat	gaaagcattt	atgggaactc	cagtgcagaa	7200
attggacctg	ccaggaaatt	tacctggcag	caaaagatgg	ccacaaactc	ctaaggaaaa	7260
ggcccaggct	ctagaagacc	tggctggctt	caaagagctc	ttccagacac	caggcactga	7320
caagcccacg	actgatgaga	aaactacca	aatagcctgc	aaatctccac	aaccagaccc	7380
agtggacacc	ccagcaagca	caaagcaacg	gcccagaga	agcctcagga	aagcagacgt	7440
agaggaagaa	tttttagcac	tcaggaaacg	aacaccatca	gcaggcaaag	ccatggacac	7500
accaaacc	gcagtaagt	atgagaaaaa	tatcaacaca	tttgtggaaa	ctccagtga	7560
gaaactggac	ctgctaggaa	atttacctgg	cagcaagaga	cagccacaga	ctcctaagga	7620
aaaggctgag	gctctagagg	acctgggttg	cttcaagaa	ctcttccaga	caccaggtca	7680
cactgaggaa	tcaatgactg	atgacaaaat	cacagaagta	tcctgtaaat	ctccacagcc	7740
agagtcattc	aaaacctcaa	gaagctccaa	gcaaaggctc	aagatacccc	tggtgaaagt	7800
ggacatgaaa	gaagagcccc	tagcagtcag	caagctcaca	cggacatcag	gggagactac	7860
gcaaacacac	acagagccaa	caggagatag	taagagcatc	aaagcgttta	aggagtctcc	7920
aaagcagatc	ctggacccag	cagcaagtgt	aactggtagc	aggaggcagc	tgagaactcg	7980
taaggaaaag	gcccgtgctc	tagaagacct	ggttgacttc	aaagagctct	tctcagcacc	8040
aggtcacact	gaagagtcaa	tgactattga	caaaaacaca	aaaattccct	gcaaattctcc	8100
cccaccagaa	ctaacagaca	ctgccacgag	cacaaagaga	tgccccaaga	caggtcccag	8160
gaaagaagta	aaagaggagc	tctcagcagt	tgagaggctc	acgcaaacat	cagggcaaac	8220
cacacacaca	cacaaagaac	cagcaagcgg	tgatgagggc	atcaaagtat	tgaagcaacg	8280
tgcaaagaag	aaaccaaacc	cagtagaaga	ggaaccacgc	aggagaaggc	caagagcacc	8340
taaggaaaag	gcccaccccc	tggagacact	ggccggcttc	acagagctct	ctgaaacatc	8400
aggtcacact	caggaatcac	tgactgctgg	caaagccact	aaaataccct	gcgaatctcc	8460
cccactagaa	gtggtagaca	ccacagcaag	cacaaagagg	catctcagga	cacgtgtgca	8520
gaaggtacaa	gtaaaagaag	agccttcagc	agtcaagttc	acacaaacat	caggggaaac	8580
cacggatgca	gacaaagaac	cagcaggtga	agataaaggc	atcaaagcat	tgaaggaaac	8640
tgcaaaacag	acaccggctc	cagcagcaag	tgtactgggc	agcaggagac	agccaagagc	8700
accaggggaa	agtgcccaag	ccatagaaga	cctagctggc	ttcaaagacc	cagcagagg	8760
tcacactgaa	gaatcaatga	ctgatgacaa	aaccactaaa	ataccctgca	aatcatcacc	8820
agaactagaa	gacaccgcaa	caagctcaaa	gagacggccc	aggacacgtg	cccagaaagt	8880
agaagtgaag	gaggagctgt	tagcagttgg	caagctcaca	caaacctcag	gggagagcac	8940
gcacaccgac	aaagagccgg	taggtgaggg	caaaggcacg	aaagcattta	agcaacctgc	9000
aaagcggaag	ctggacgcag	aagatgtaat	tggcagcagg	agacagccaa	gagcacctaa	9060
ggaaaaggcc	caacccctgg	aagatctggc	cagcttccaa	gagctctctc	aaacaccagg	9120
ccacactgag	gaactggcaa	atggtgctgc	tgatagcttt	acaagcgctc	caaagcaaac	9180
acctgacagt	ggaaaacctc	taaaaatatc	cagaagagtt	cttcggggccc	ctaaagtaga	9240
accctgggga	gacgtggtaa	gcaccagaga	ccctgtaaaa	tcacaaagca	aaagcaaac	9300
ttccctgccc	ccactgccct	tcaagagggg	aggtggcaaa	gatggaagcg	tcacgggaac	9360
caagaggctg	cgctgcatgc	cagcaccaga	ggaaattgtg	gaggagctgc	cagccagcaa	9420
gaagcagagg	gttgctccca	gggcaagagg	caaatcatcc	gaacccgtgg	tcatcatgaa	9480
gagaagtttg	aggacttctg	caaaaagaat	tgaacctgcg	gaagagctga	acagcaacga	9540
catgaaaacc	aacaaagagg	aacacaaaatt	acaagactcg	gtccctgaaa	ataagggaat	9600
atccctgcgc	tccagacgcc	aaaataagac	tgaggcagaa	cagcaaataa	ctgaggtctt	9660
tgtattagca	gaaagaatag	aaataaacag	aatgaaaag	aagcccatga	agacctcccc	9720
agagatggac	attcagaatc	cagatgatgg	agcccggaaa	cccataccta	gagacaaagt	9780
cactgagaac	aaaaggtgct	tgaggtctgc	tagacagaat	gagagctccc	agcctaaggt	9840
ggcagaggag	agcggagggc	agaaagtgct	gaagggttctc	atgcagaatc	agaaagggaa	9900
aggagaagca	ggaaattcag	actccatgtg	cctgagatca	agaaagacaa	aaagccagcc	9960
tgcagcaagc	actttggaga	gcgaatctgt	gcagagagta	acgcggagtg	tcaagaggtg	10020
tgcagaaaat	ccaaagaagg	ctgaggacaa	tgtgtgtgtc	aagaaaataa	gaaccagaag	10080
tcatagggac	agtgaagata	tttgacagaa	aaatcgaaact	gggaaaaata	taataaagtt	10140
agttttgtga	taagttctag	tgagttttt	gtcataaatt	acaagtgaat	tctgtaagta	10200
aggctgtcag	tctgcttaag	ggaagaaaaac	tttggatttg	ctgggtctga	atcggcttca	10260

PA-0043 US

taaactccac	tgggagcact	gctggggctcc	tggactgaga	atagttgaac	accgggggct	10320
ttgtgaagga	gtctggggcca	aggtttgccc	tcagctttgc	agaatgaagc	cttgagggtct	10380
gtcaccaccc	acagccaccc	tacagcagcc	ttaactgtga	cacttgccac	actgtgtcgt	10440
cgtttgtttg	cctatgtcct	ccagggcacg	gtggcaggaa	caactatcct	cgtctgtccc	10500
aacactgagc	aggcactcgg	taaacacgaa	tgaatggatg	agcgcacgga	tgaatggagc	10560
ttacaagatc	tgtctttcca	atggccgggg	gcattttggtc	cccaaattaa	ggctattgga	10620
catctgcaca	ggacagtcct	atTTTTgatg	tcttttcctt	tctgaaaata	aagttttgtg	10680
ctttggagaa	tgactcgtga	gcacatcttt	agggaccaag	agtgactttc	tgtaaggagt	10740
gactcgtggc	ttgccttggg	ctcttgggaa	tacttttcta	actagggttg	ctctcacctg	10800
agacattctc	cacccgcgga	atctcagggg	cccaggctgt	gggccatcac	gacctcaaac	10860
tggctcctaa	tctccagctt	tctgttcatt	gaaagcttcg	gaagtttact	ggctctgctc	10920
ccgcctgttt	tctttctgac	tctatctggc	agcccgatgc	cacccagtac	aggaagtgc	10980
accagtactc	tgtaaagcat	catcatcctt	ggagagactg	agcactcagc	accttcagcc	11040
acgatttcag	gatcgcttcc	ttgtgagccg	ctgcctccga	aatctccttt	gaagcccaga	11100
catctttctc	cagcttcaga	cttgtagata	taactcgttc	atcttcattt	actttccact	11160
ttgccccctg	tctctctgtg	gttccccaaa	tcagagaata	gcccgccatc	ccccagggtca	11220
cctgtctgga	ttcctcccca	ttcaccacc	ttgccagggtg	cagggtgagga	tggtgcacca	11280
gacagggtag	ctgtccccc	aaatgtgccc	tgtgccccga	gtgcctgtc	tccacgtttg	11340
tttccccagt	gtctggcggg	gagccagggtg	acatcataaa	tacttgctga	atgaatgcag	11400
aaatcagcgg	tactgacttg	tactatattg	gctgccatga	tagggttctc	acagcgtcat	11460
ccatgatcgt	aaggggagaat	gacattctgc	ttgagggagg	gaatagaaag	gggcagggag	11520
gggacatctg	agggtctcac	agggtctgaa	agggtacagg	gattgcacca	gggcagaaca	11580
ggggaggggtg	ttcaaggaag	agtggctctt	agcagaggca	ctttggaagg	tgtgaggcat	11640
aaatgcttcc	ttctacgtag	gccaacctca	aaactttcag	taggaatgtt	gctatgatca	11700
agttgttcta	acactttaga	cttagtagta	attatgaacc	tcacatagaa	aaatttcac	11760
cagccatatg	cctgtggagt	ggaatattct	gttttagtaga	aaaatcctta	gagttcagct	11820
ctaaccagaa	atcttgctga	agtatgtcag	caccttttct	caccttggtg	agtacagtat	11880
ttcaagagca	cgctaagggg	ggtttttcatt	ttacagggct	gttgatgatg	ggttaaaaa	11940
gttcatttaa	gggctacccc	cgtgtttaat	agatgaacac	cacttctaca	caaccctcct	12000
tgggtactggg	ggagggagag	atctgacaaa	tactgccc	tcccctaggc	tgactggatt	12060
tgagaacaaa	taccacacca	tttccaccat	ggtatggtaa	cttctgtgag	cttcagtttc	12120
caagtgaatt	tccatgtaat	aggacattcc	cattaaatac	aagctgtttt	tactttttcg	12180
cctcccaggg	cctgtgcgat	ctgggtcccc	agcctctctt	gggctttctt	acactaactc	12240
tgtacctacc	atctcctgcc	tcccttaggc	aggcacctcc	aaccaccaca	cactccctgc	12300
tgttttccct	gcctggaact	ttccctcctg	ccccaccaag	atcatttcat	ccagtcctga	12360
gctcagctta	agggaggctt	cttgccctgtg	ggttccctca	cccccatgcc	tgctcctcag	12420
gctggggcag	gttcttagtt	tgccctggaat	tgtttctgtac	ctctttgtag	cacgtagtgt	12480
tgtggaaaact	aagccactaa	ttgagtttct	ggctccccctc	ctgggggttg	aagttttgtt	12540
cattcatgag	ggccgactgc	atttccctgg	tactctatcc	cagtgaccag	ccacaggaga	12600
tgtccaataa	agtatgtgat	gaaatgggtct	ta			12632

<210> 50

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 417119.1

<400> 50

aaaacaaaga	aggctggaaa	ccaaagcaat	catctcttta	gtggaaacta	ttcttaaaga	60
agatcttgat	ggctactgac	atttgcaact	ccctcactct	ttctcagggg	cctttcactt	120
acattgtcac	cagaggttcg	taacctccct	gtgggctagt	gttatgacca	tcaccatttt	180
acctaagttag	ctctgttgct	cgggccacagt	gagcagtaat	agacctgaag	ctggaaccca	240
tgtctaatag	tgtcaggtcc	agtggttctta	gccacccac	tcccagcttc	atccctactg	300
gtgttgatcat	cagactttga	ccgtatatgc	tcagggtgtcc	tccaagaaat	caaattttgc	360
cacctgcct	tcacgaggcc	tgcccttctg	gatttatacc	taacaacatg	tgctccacat	420
ttcagaa						427

<210> 51

<211> 8493

PA-0043 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 441283.3

<400> 51

```

taaattttaa ggcggggcg cctgtgagcc ctgaagtgcc ggccgcggag ggtcctggcc 60
attttggtgg gaccagttca gcctgatagg atggcgaggg aaggagccgt ggccgtctgc 120
gtgcgagtgc ggccgctgaa cagcagagaa gaatcacttg gagaaactgc ccaagtttac 180
tggaaaactg acaataatgt catttatcaa gttgatggaa gtaaactcctt caattttgat 240
cgtgtctttc atggtaatga aactaccaa aatgtgtatg aagaaatagc agcaccaatc 300
atcgattctg ccatacaagg ctacaatggg actatatttg cctatggaca gactgcttca 360
ggaaaaacat ataccatgat ggggttcagaa gatcatttgg gagttatacc cagggcaatt 420
catgacattt tccaaaaaat taagaagttt cctgataggg aatttctctt acgtgtatct 480
tacatggaaa tatacaatga aaccattaca gatttactct gtggcactca aaaaatgaaa 540
cctttaatta ttcgagaaga tgtcaatagg aatgtgtatg ttgctgatct cacagaagaa 600
gttgtatata catcagaata ggctttgaaa tggattacaa agggagaaaa gagcaggcat 660
tatggagaaa caaaaatgaa tcaaagaagc agtcgttctc ataccatctt taggatgatt 720
ttggaaagca gagagaaggg tgaaccttct aattgtgaag gatctgttaa ggtatcccat 780
ttgaatttgg ttgatcttgc aggcagtga agagctgctc aaacaggcgc tgcaggtgtg 840
cggctcaagg aaggctgtaa tataaatcga agcttattta ttttgggaca agtgatcaag 900
aaacttagtg atggacaagt tgggtggtttc ataaattatc gagatagcaa gttaacacga 960
attcttcaga attccttggg aggaaatcca aagacacgta ttatctgcac aattactcca 1020
gtatcttttg atgaaactct tactgctctc cagtttgcca gtactgctaa atatatgaag 1080
aatactcctt atgttaatga ggtatcaact gatgaagctc tcctgaaaag gtatagaaaa 1140
gaaataatgg atcttaaaaa acaattagag gaggtttctt tagagacgcg ggctcaggca 1200
atggaaaaag accaattggc ccaacttttg gaagaaaaag atttgcttca gaaagtacag 1260
aatgagaaaa ttgaaaactt aacacggatg ctgggtgacct cttcttccct cacgttgcaa 1320
caggaattaa aggctaaaag aaaacgaaga gttacttggg gccttggcaa aattaacaaa 1380
atgaagaact caaactatgc agatcaattt aatataccaa caaatataac aacaaaaaca 1440
cataagcttt ctataaattt attacgagaa attgatgaat ctgtctgttc agagtctgat 1500
gttttcagta acactcttga tacattaagt gagatagaat ggaatccagc aacaaagcta 1560
ctaaatcagg agaatataga aagtgaagtg aactcacttc gtgctgacta tgataatctg 1620
gtattagact atgaacaact acgaacagaa aaagaagaaa tgggaattgaa attaaaagaa 1680
aagaatgatt tggatgaatt tgaggctcta gaagaaaaaa ctaaaaaaga tcaagagatg 1740
caactaattc atgaaatttc gaacttaaa aatttagtta agcatcgaga agtatataat 1800
caagatcttg agaatgaact cagttcaaaa gtagagctgc ttagagaaaa ggaagaccag 1860
attaagaagc tacaggaata catagactct caaaagctag aaaatataaa aatggacttg 1920
tcatactcat tggaaagcat tgaagacca aaacaaatga agcagactct gtttgatgct 1980
gaaactgtag cccttgatgc caagagagaa tcagcctttc ttagaagtga aaatctggag 2040
ttgaaggaga aaatgaaga acttgcaact acatacaagc aaatggaaaa tgatattcag 2100
ttatatcaaa gccaatggga ggcaaaaaag aaaatgcaag ttgatctgga gaaagaatta 2160
caatctgctt ttaatgagat aacaaaactc acctccctta tagatggcaa agttccaaaa 2220
gatttgctct gtaatttggg atttgaagga aagattactg atcttcagaa agaactaaat 2280
aaagaagttg aagaaaatga agctttgcgg gaagaagtca ttttgctttc agaattgaaa 2340
tctttacctt ctgaagtaga aaggctgagg aaagagatac aagacaaatc tgaagagctc 2400
catataataa catcagaaaa agataaattg ttttctgaag tagttcataa ggagagtaga 2460
gttcaagggt tacttgaaga aattgggaaa acaaaagatg acctagcaac tacacagtcg 2520
aattataaaa gcactgatca agaattccaa aatttcaaaa cccttcatat ggacttttag 2580
caaaagtata agatggtcct tgaggagaat gagagaatga atcaggaaat agttaatctc 2640
tctaaagaag cccaaaaatt tgattcgagt ttgggtgctt tgaagaccga gctttcttac 2700
aagacccaag aacttcagga gaaaacacgt gaggttcaag aaagactaaa tgagatggaa 2760
cagctgaagg aacaattaga aaatagagat tctccgctgc aaactgtaga aagggagaaa 2820
acactgatta ctgagaaact gcagcaaact ttgaagaag taaaaacttt aactcaagaa 2880
aaagatgata taaaacaact ccaagaaagc ttgcaaatg agagggacca actcaaaagt 2940
gatattcacg atactgttaa catgaatata gatactcaag aacaattacg aaatgctctt 3000
gagtctctga aacaacatca agaaacaatt aatacactaa aatcgaaaat ttctgaggaa 3060
gtttccagga atttgcatat ggaggaaaat acaggagaaa ctaaagatga atttcagcaa 3120
aagatggttg gcatagataa aaaacaggat ttggaagcta aaaataccca aacactaact 3180
gcagatgtta aggataatga gataattgag caacaaagga agatattttc tttaatacac 3240

```

gagaaaaatg	aactccaaca	aatgttagag	agtgttatag	cagaaaagga	acaattgaag	3300
actgacctaa	aggaaaatat	tgaatgacc	attgaaaacc	aggaagaatt	aagacttctt	3360
ggggatgaac	ttaaaaagca	acaagagata	gttgacacaag	aaaagaacca	tgccataaag	3420
aaagaaggag	agctttctag	gacctgtgac	agactggcag	aagttgaaga	aaaactaaag	3480
gaaaagagcc	agcaactcca	agaaaaacag	caacaacttc	ttaatgtaca	agaagagatg	3540
agtgagatgc	agaaaaagat	taatgaaata	gagaatttta	agaatgaatt	aaagaacaaa	3600
gaattgacat	tggaaacatat	ggaacacagag	aggcttgagt	tggctcagaa	acttaatgaa	3660
aattatgagg	aagtgaatc	tataaccaaa	gaaagaaaag	ttctaaagga	attacagaag	3720
tcatttga	cagagagaga	ccaccttaga	ggatatataa	gagaaattga	agctacaggc	3780
ctacaaacca	aagaagaact	aaaaattgct	catattccac	taaaagaaca	ccaagaaact	3840
attgatgaac	taagaagaag	cgtatctgag	aagacagctc	aaataataaa	tactcaggac	3900
ttagaaaaat	cccatacca	attacaagaa	gagatcccag	tgcttcatga	ggaacaagag	3960
ttactgccta	atgtgaaaaa	agtcagttag	actcaggaaa	caatgaatga	actggagtta	4020
ttaacagAAC	agtccacaac	caaggactca	acaacactgg	caagaataga	aatggaaagg	4080
ctcagggtta	atgaaaaatt	tcaagaaagt	caggaagaga	taaaatctct	aaccaaggaa	4140
agagacaacc	ttaaaacgat	aaaagaagcc	cttgaagtta	aacatgacca	gctgaaagaa	4200
catatttagag	aaactttggc	taaaatccag	gagtctcaaa	gcaaacaaga	acagtcctta	4260
aatatgaaag	aaaaagacaa	tgaactacc	aaaatcgtga	gtgagatgga	gcaattcaaa	4320
cccaaagatt	cagcactact	aaggatagaa	atagaaatgc	tcggattgtc	caaaagactt	4380
caagaagtc	atgatgaaat	gaaatctgta	gctaaggaga	aagatgacct	acagaggctg	4440
caagaagttc	ttcaatctga	aagtgaccag	ctcaaagaaa	acataaaaga	aattgtagct	4500
aaacacctgg	aaactgaaga	ggaacttaaa	gttgctcatt	gttgcttgaa	agaacaagag	4560
gaaactatta	atgagttaag	agtgaatctt	tcagagaagg	aaactgaaat	atcaaccatt	4620
caaaagcagt	tagaagcaat	caatgataaa	ttacagaaca	agatccaaga	gatttatgag	4680
aaagagggaac	aatttaatat	aaaacaaatt	agtggaggtc	aggaaaaagt	gaatgaactg	4740
aaacaattca	aggagcatcg	caaagccaag	gattcagcac	tacaaagtat	agaaagtaag	4800
atgctcgagt	tgaccaacag	acttcaagaa	agtcaagaag	aaatacaaat	tatgattaag	4860
gaaaaagagg	aaatgaaaag	agtcacaggag	gcccttcaga	tagagagaga	ccaactgaat	4920
gaaaacacta	aagaatttgt	agctaaaatg	aaagaatctc	aagaaaaaga	atatcagttt	4980
cttaagatga	cagctgtcaa	tgagactcag	gagaaaatgt	gtgaaataga	acacttgaag	5040
gagcaatttg	agaccagaa	gttaaacctg	gaaaacatag	aaacggagaa	tataagggtg	5100
actcagatac	tacatgaaaa	ccttgaagaa	atgagatctg	taacaaaaga	aagagatgac	5160
cttaggagtg	tggaggagac	tctcaaagta	gagagagacc	agctcaagga	aaaccttaga	5220
gaaactataa	ctagagacct	agaaaaacaa	gaggagctaa	aaattgttca	catgcatctg	5280
aaggagcacc	aagaaactat	tgataaaacta	agaggggattg	tttcagagaa	aacaaatgaa	5340
atatcaaata	tgcaaaagga	cttagaacac	tcaaatgatg	ccttaaaagc	acaggatctg	5400
aaaatacaag	aggaactaag	aattgtctac	atgcattctga	aagagcagca	ggaaactatt	5460
gacaaactca	gaggaattgt	ttctgagaag	acagataaac	tatcaaatat	gcaaaaagat	5520
ttagaaaatt	caaattgctaa	attacaagaa	aagattcaag	aacttaaggc	aaatgaacat	5580
caacttatta	cgttaaaaaa	agatgtcaat	gagacacaga	aaaaagtgtc	tgaaatggag	5640
caactaaaga	aacaaataaa	agaccaaagc	ttaactctga	gtaaattaga	aatagagaat	5700
ttaaattttg	ctcaagaact	tcatgaaaac	cttgaagaaa	tgaaatctgt	aatgaaagaa	5760
agagataatc	taagaagagt	agaggagaca	ctcaaactgg	agagagacca	actcaaggaa	5820
agcctgcaag	aaaccaaagc	tagagatctg	gaaatacaac	aggaactaaa	aactgtctgt	5880
atgctatcaa	aagaacacaa	agaaactgtt	gataaactta	gagaaaaaat	ttcagaaaag	5940
acaatttcaa	tttcagacat	tcaaaaggat	ttagataaat	caaaagatga	attacagaaa	6000
aagatccaag	aacttcagaa	aaaagaactt	caactgctta	gagtgaagaa	agatgtcaat	6060
atgagtcata	aaaaaattaa	tgaaatggaa	cagttgaaga	agcaatttga	gccaaactat	6120
ctatgcaagt	gtgagatgga	taacttccag	ttgactaaga	aacttcatga	aagccttgaa	6180
gaaataagaa	ttgtagctaa	agaaagagat	gagctaagga	ggataaaaga	atctctcaa	6240
atggaaaggg	accaattcat	agcaacctta	agggaaatga	tagctagaga	ccgacagaac	6300
caccaagtaa	aacctgaaaa	aaggttacta	agtgatggac	aacagcacct	tatggaaagc	6360
ctgagagaaa	agtgtcttag	aataaaaagag	cttttgaaga	gataactcaga	gatggatgat	6420
cattatgagt	gcttgaatag	attgtctctt	gacttggaga	aggaaattga	attccacaga	6480
atcatgaaga	aactgaagta	tgtgttaagc	tatgttacia	aaataaaaga	agaacaacat	6540
gaatgcatca	ataaatttga	aatggatttt	attgatgaag	tggaaaagca	aaaggaattg	6600
ctaattaaaa	tacagcacct	tcaacaagat	tgtgatgtac	catccagaga	attaagggat	6660
ctcaaattga	accagaatat	ggatctacat	attgaggaaa	ttctcaaaga	tttctcagaa	6720
agtgaattcc	ctagcataaa	gactgaattt	caacaagtac	taagtaatag	gaaagaaatg	6780
acacagtttt	tggaaagagt	gttaaatact	cgttttgata	tagaaaagct	taaaaatggc	6840
atccagaaag	aaaatgatag	gatttgtcaa	gtgaataact	tctttaataa	cagaataatt	6900
gccataatga	atgaatcaac	agagtttgag	gaaagaagtg	ctaccatata	caaagagtgg	6960

PA-0043 US

gaacaggacc	tgaatcact	gaaagagaaa	aatgaaaaac	tatttataaaa	ctaccaaaaca	7020
ttgaagactt	ccttggcatc	tggtgcccag	gttaatccta	ccacacaaga	caataagaat	7080
cctcatgtta	catcaagagc	tacacagtta	accacagaga	aaattcgaga	gctggaaaat	7140
tactgcatg	aagctaaaga	aagtgtctatg	cataaggaaa	gcaagattat	aaagatgcag	7200
aaagaacttg	agggtgactaa	tgacataata	gcaaaacttc	aagccaaagt	tcatgaatca	7260
aataaatgcc	ttgaaaaaac	aaaagagaca	attcaagtac	ttcaggacaa	agttgcttta	7320
ggagctaagc	catataaaga	agaaattgaa	gatctcaaaa	tgaagcttgt	gaaaatagac	7380
ctagagaaaa	tgaaaaatgc	caaagaatct	gaaaaggaaa	tcagtgtctac	aaaagccact	7440
gtagaatatc	aaaaggaagt	tataaggcta	ttgagagaaa	atctcagaag	aagtcaacag	7500
gccaagatac	cctcagtgat	atcagaacat	actgatcctc	agccttcaaa	taaaccctta	7560
acttggtggag	gtggcagcgg	cattgtacaa	aacacaaaag	ctcttatttt	gaaaagtgaa	7620
catataaggc	tagaaaaaga	aattttctaag	ttaaagcagc	aaaatgaaca	gctaataaaa	7680
caaaagaatg	aattgttaag	caataatcag	catctttcca	atgaggtcaa	aacttggaag	7740
gaaagaaccc	ttaaaagaga	ggctcacaaa	caagtaactt	gtgagaattc	tccaaagtct	7800
cctaaagtga	ctggaacagc	ttctaaaaag	aaacaaatta	caccctctca	atgcaaggaa	7860
cggaattttac	aagatcctgt	gccaaaggaa	tcaccaaagt	cttggttttt	tgatagccga	7920
tcaaagtctt	taccatcacc	tcattccagtt	cgctattttg	ataactcaag	tttaggcctt	7980
tgtccagagg	tgcaaaatgc	aggagcagag	agtgtggatt	ctcagccagg	tccttggcac	8040
gcctcctcag	gcaaggatgt	gcctgagtg	aaaactcagt	agactcctct	ttgtcacttc	8100
tctggagatc	cagcattcct	tatttggaaa	tgactttgtt	tatgtgtcta	tccctggtaa	8160
tgatgttgta	gtgcagctta	atttcaattc	agtctttact	ttgccactag	agttgaaaga	8220
taagggaaca	ggaaatgaat	gcattgtggt	aattttagaat	ggtgatagca	ataccttctt	8280
cttgcatatg	gtaatacttt	taaaagttga	attgtttcta	tcttatttgt	atattttgta	8340
aagaataaag	ttattgaaag	aatgttaaag	ttatctacat	gacttagcat	attccaaagc	8400
ataatacata	cattaatata	aaacatcatt	ttattaacaa	aattgtaaat	gtttttaata	8460
ccttacacat	tcaataaatg	tttagtagtt	ctg			8493

<210> 52

<211> 5821

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 447973.25

<220>

<221> unsure

<222> 1396-1412

<223> a, t, c, g, or other

<400> 52

gagattgagt	taccatggag	ggaaagaaca	tgtgtttttac	cagtggaaacg	cattcttttgt	60
gttatctctt	cgatttttaa	cattttatgt	ttccagttta	taaacttttg	ctccagtttg	120
atgaagaaaa	tttagctatt	agaaagtatt	taaaatctca	aaagtatgac	attttataat	180
gttagcaggt	ttaaagataa	cttagttttt	caactcttaa	cccaaaatta	tacttgtata	240
ctataatttg	tgttgaatta	cttgggtatta	tttatcatcc	tagtaagatc	tattttatat	300
aatttgattc	actttttata	ttgaattatg	tttaattgtt	ttgtaataca	cctttcata	360
ttcttcaaag	aaaactagtg	ttgggttatt	gctaattttg	cttcgtgggt	tggttattta	420
catataaaaa	ttatattgtt	ttaaaaattg	caaagtgatc	atttattgac	acatcagcaa	480
gaattaatgt	tgaaatgcaa	gtttttttccc	ctatccttaa	ctaagtgtgt	agatatcttt	540
gttttgtttc	tttaatatag	agcaaacat	aaagatgcac	tgagggaagc	atggaaccct	600
aagtttacat	tgagaagtca	ctttgatggc	atccgagccc	ttgctttcca	tcccattgag	660
cctgttttga	taacagcatc	agaggatcac	acattaaaaa	tgtggaattt	acagaaaaca	720
gccccagcca	aaaagtgaga	atatctact	ttaacattat	ttgaatattt	taagtaacat	780
tttcagcaga	aaactacata	ttttatgatt	tctgttaaat	ttcccaaaca	tttcttctag	840
ttctttcttc	catgtcatgt	aattttattgt	gtttttccat	ttatacaacc	taatgctagg	900
ttagaaaact	gatgcttagg	aagatatggt	attatctttt	ggtttcacca	gggtttgtga	960
atactgatta	cagtctttat	acataacagt	atttttaaat	ggctgctata	tttggggagc	1020
cccttgctta	tactgaagggt	ttggactgtt	cttgtaaaca	ggtatatgca	tctttataat	1080
aatcaaatgt	ccacctccac	cttgcccat	tgttttactag	atttagactt	atgagatgga	1140
gcagagaaaa	gcctcactgg	gatgggtgga	gggtcttggt	cttgtctttt	ggccttgaga	1200

PA-0043 US

cttttaggtac	tttccataacc	caccaatatg	tctagactca	gaggctaaca	tgactgctag	1260
tgctcacctt	ggcccttttag	ttcctgtcta	agcatggata	gacatgagtt	agtataaacc	1320
ttaaaagtca	caagctaaat	ctgggttctac	ttgcttgggt	ccttatcgga	gctccactcc	1380
tttgggtcac	atgtcnnnnn	nnnnnnnnnn	nnggcgcgt	ccgctgcgct	gggggctcgg	1440
tctatgacga	gcagcggggg	ctgccatggg	tccgggggctg	ctcagggggcc	tgtggccgct	1500
gcacatcgct	ctgtggacgc	gtatcgccag	cacgatccca	ccgcacgttc	agaagtcggt	1560
taataacgac	atgatagtca	ctgacaacaa	cgggtgcagtc	aagtttccac	aactgtgtaa	1620
atthttgtgat	gtgagatthtt	ccacctgtga	caaccagaaa	tcttgcataga	gcaactgcag	1680
catcacctcc	atctgtgaga	agccacagga	agtctgtgtg	gctgtatgga	gaaagaatga	1740
cgagaacata	acactagaga	cagtttgcca	tgaccccaag	ctccccctacc	atgactttat	1800
tctggaagat	gctgcttctc	caaagtgcac	tatgaaggaa	aaaaaaaaagc	ctgggtgagac	1860
tttcttcatg	tgttctctgta	gctctgatga	gtgcaatgac	aacatcatct	tctcagaaga	1920
atataacacc	agcaatcctg	acttgtttgt	agtcataatt	caagtgcacag	gcatcagcct	1980
cctgccacca	ctgggagttg	ccatatctgt	catcatcatc	ttctactgct	accgcgttaa	2040
ccggcagcag	aagctgagtt	caacctggga	aaccggcaag	acgcggaagc	tcatggagtt	2100
cagcgagcac	tgtgccatca	tcctggaaga	tgaccgctct	gacatcagct	ccacgtgtgc	2160
caacaacatc	aaccacaaca	cagagctgct	gcccattgag	ctggacaccc	tgggtggggaa	2220
aggctcgctt	gctgaggtct	ataaggccaa	gctgaagcag	aacacttcag	agcagtttga	2280
gacagtggca	gtcaagatct	ttccctatga	ggagtatgcc	tcttggaaga	cagagaagga	2340
catcttctca	gacatcaatc	tgaagcatga	gaacatactc	cagttcctga	cggctgagga	2400
gcggaagacg	gagttggggg	aacaatactg	gctgatcacc	gccttccacg	ccaagggcaa	2460
cctacaggag	tacctgacgc	ggcatgtcat	cagctgggag	gacctgcgca	agctgggcag	2520
ctccctcgcc	cgggggattg	ctcacctcca	cagtgtatcac	actccatgtg	ggaggcccaa	2580
gatgcccatc	gtgcacaggg	acctcaagag	ctccaatatc	ctcgtgaaga	acgacctaac	2640
ctgctgcctg	tgtgactttg	ggctttccct	gcgtctggac	cctactctgt	ctgtggatga	2700
cctgggctaac	agtgggcagg	tgggaactgc	aagatacatg	gctccagaag	tcctagaatc	2760
caggatgaat	ttggagaatg	ttgagtcctt	caagcagacc	gatgtctact	ccatggctct	2820
ggtgctctgg	gaaatgacat	ctcgtgttaa	tgcagtggga	gaagtaaaag	attatgacc	2880
tccatttggg	tccaaggtgc	gggagcaccc	ctgtgtcgaa	agcatgaagg	acaacgtgtt	2940
gagagatcga	gggcgaccag	aaattcccag	cttctggctc	aaccaccagg	gcatccagat	3000
ggtgtgtgag	acgttgactg	agtgtctggg	ccacgaccca	gaggcccgct	tcacagccca	3060
gtgtgtggca	gaacgcttca	gtgagctgga	gcatctggac	aggctctcgg	ggaggagctg	3120
ctcggaggag	aagattcctg	aagacggctc	cctaaacact	accaaatagc	tcttctgggg	3180
caggctgggc	catgtccaaa	gaggctgccc	ctctcaccaa	agaacagagg	cagcaggaag	3240
ctgcccctga	actgatgctt	cctggaaaaac	caaggggggtc	actccccctc	ctgtaagctg	3300
tggggataag	cagaaacaac	agcagcaggg	agtgggtgac	atagagcatt	ctatgccttt	3360
gacattgtca	taggataagc	tgtgttagca	cttctcagg	aaatgagatt	gattttttaca	3420
atagccaata	acatttgcac	tttattaatg	cctgtatata	aatatgaata	gctatgtttt	3480
atatatatat	atatatatct	atatatgtct	atagctctat	atatatagcc	ataccttgaa	3540
aagagacaag	gaaaaacatc	aaatattccc	aggaaattgg	ttttatttga	gaactccaga	3600
accaagcaga	gaaggaaggg	acccatgaca	gcattagcat	ttgacaatca	cacatgcagt	3660
ggttctctga	ctgtaaaaca	gtgaaatttg	catgaggaaa	gaggctccat	gtctcacagc	3720
cagctatgac	cacattgcac	ttgcttttgc	aaaataatca	ttccctgcct	agcacttctc	3780
ttctggccat	ggaactaagt	acagtggcac	tgtttgagga	ccagtgttcc	cgggggttcc	3840
gtgtgccctt	atttctcctg	gactttttat	ttaagctcca	agccccaaat	ctggggggct	3900
agtttagaaa	ctctccctca	acctagttta	gaaactctac	cccatcttta	ataccttgaa	3960
tgttttgaac	cccacttttt	accttcatgg	gttgacagaaa	aataagaaca	gatgtcccca	4020
tccatgcat	tgccccacca	tctactaatg	aaaaattgtt	cttttttttca	tctttccctt	4080
gcacttatgt	tactattctc	tgtctccagc	cttcatcctt	ttctaaaaag	gagcaaattc	4140
tcactctagg	ctttatcgtg	tttacttttt	cattacactt	gacttgattt	tctagttttc	4200
tatacaaaca	ccaatgggtt	ccatctttct	gggctcctga	ttgctcaagc	acagtttggc	4260
ctgatgaaga	ggatttcaac	tacacaatac	tatcattgtc	aggactatga	cctcaggcac	4320
tctaaacata	tgtttttgtt	ggtcagcaca	gcgtttcaaa	aagtgaagcc	actttataaa	4380
tattttggaga	tttttcagga	aaactctggt	ccccaggtaa	ggatagcaga	tgggttttcag	4440
ttatctccag	tccacgttca	caaaatgtga	aggtgtggag	acacttacia	agctgcctca	4500
cttctcactg	taaacattag	ctctttccac	tgcctacctg	gacccacagtc	taggaattaa	4560
atctgcacct	aaccaaggtc	ccttctaaga	aatgtccatt	caagcagtc	ttctctgggt	4620
atataaatatg	atthttgacta	ccttatctgg	tgttaagatt	tgaagttggc	cttttatttg	4680
actaaagggg	aactccttta	agggtctcag	ttagcccaag	tttcttttgc	ttatatgtta	4740
atagttttac	cctctgcatt	ggagagagga	gtgcttttact	ccaagaagct	ttcctcatgg	4800
ttaccgttct	ctccatcatg	ccagccttct	caacctttgc	agaaattact	agagaggatt	4860
tgaatgtggg	acacaaaggt	cccatttgca	gttagaaaat	ttgtgtccac	aaggacaaga	4920

PA-0043 US

```

acaagtatg agcttttaaaa ctccatagga aacttggttaa tcaacaaaga agtggttaatg 4980
ctgcaagtaa tctctttttt aaaacttttt gaagctactt attttcagcc aaataggaat 5040
attagagagg gactggtagt gagaatatca gctctgtttg gatgggtggaa ggtctcattt 5100
tattgagatt tttaagatac atgcaaaggt ttggaaatag aacctctagg caccctcctc 5160
agtggtgggt ggctgagagt taaagacagt gtggctgcag tagcatagag gcgcctagaa 5220
attccacttg cactgtaggg catgctgata ccatcccaat agctgttgcc cattgacctc 5280
tagtgggtgag tttctagaat actgggtccat tcatgagata ttcaagattc aagagtattc 5340
tcacttctgg gttatcagca taaactggaa tgtagtgtca gaggatactg tggcttggtt 5400
tgtttatgtt tttttttctt attcaagaaa aaagaccaag gaataacatt ctgtagtacc 5460
taaaaatact gacttttttc actactatac ataaaggga agttttattc ttttatggaa 5520
cacttcagct gtactcatgt attaaaatag gaatgtgaat gctatatact ctttttatat 5580
caaaagcttc aagcacttat ttttattcta tgcattgttt gtcttttaca taaataaaat 5640
gtttattaga ttgaataaag caaaatactc aggtgagcat cctgcctcct gttcccatc 5700
ctagtagcta aatccatttg cctcatttgg ttattttgca atttatgcag aaaacgtcac 5760
caagtaaata atctccaact ttttcatact gtctttctca actgacagtc tcacagtcct 5820
t 5821

```

<210> 53

<211> 1710

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474426.5

<220>

<221> unsure

<222> 1596

<223> a, t, c, g, or other

<400> 53

```

accccgggga gtttaagatg gcggcggggg ggacaggggc ctgcgggagg agcagcgcta 60
tgggctgtcg tgcggacggc tggggcagga caacatcacc gtactgcatg tgaagctcac 120
cgagacggcg atccgggcgc tcgagactta ccagagccac aagaatttaa ttcttttctg 180
accttcaatc cagttccaag gactccacgg gatgacctgtc ttcttttaaaa gaacattgca 240
aacgtctcac aaagcctagc gcttgtcaaa atgcccaaaa atgatccctt caatgaagtt 300
cataacttta acttttattt gtcaaatgtg ggcaaagaca accctcaggg cagctttgac 360
tgcattccagc aaacattctc cagctctgga gcctcccagc tcaattgcct gggatttata 420
caagataaaa ttacagtgtg tgcaacaaac gactcgtatc agatgacacg agaaagaatg 480
accagggcag aggaggaatc ccgcaaccga agcacaacaa ttatcaaacc cgggtggacca 540
tatgtaggga aaagagtgcg aattcggaaa gcacctcaag ctgtttcaga tacagtccct 600
gagaggaaaa ggtcaacccc catgaaccct gcaaatataa ttcgaaagac acatagcagc 660
agcaccatct ctgagaggcc atacagggac aggggtgattc acttactggc cctgaaggcc 720
tacaagaaac cggagctact tgctagactc cagaagatg gtgtcaatca aaaagacaag 780
aactccctgg gagcaattct gcaacaggtg gccaatctga attctaagga cctctcatat 840
accttaaaagg attatgtttt taaagagctt caaagagact ggctgggata cagtgaataa 900
gacagacggg cattggagtc agtgctctct agaaaactaa atccgtctca gaatgctaca 960
ggcaccagcc gttcagaatc tcctgtatgt tctagtagag atgctgtatc ttctcctcag 1020
aaacggcctt tggattcaga gtttattgat cctttaatga ataaaaaagc ccgaatatct 1080
cacctgacga acagagtacc accaactact aatgggtcatt tgaatcccac cagtgaaaaa 1140
tcggctgcag gcctcccact gcccctgcg gctgctgcca tccccacccc tccaccgctg 1200
ccttcaacct atctgcccac ctacatcct cctcagattg taaattctaa ctccaactcc 1260
cctagcactc cagaaggccg ggggactcaa gacctacctg ttgacagttt tagtcaaaac 1320
gatagtatct atgaggacca gcaagacaaa tatacctcta ggacttctct ggaaacctta 1380
ccccctggtt ccgttctact aaagtgtcca aagcctatgg aagaaaacca ttcaatgtct 1440
cacaaaaagt ccaaaaagaa gtctaaaaaa cataaggaaa aggaccaaat aaaaaagcac 1500
gacattgaga ctattgagga aaaggaggaa gatcttaaga gagaagagga aattgccaag 1560
ctaaataact ccagtccaaa ttccagtggg ggtatnttac ctttagatga accagaagtg 1620
catgttatca tgagtttgaa attacacagt ttataattag taatttcttt agcaaatgac 1680
gtttcattta attattaatc ttagtggtgt 1710

```

PA-0043 US

<210> 54
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 475055.1

<220>
 <221> unsure
 <222> 97-121, 414
 <223> a, t, c, g, or other

<400> 54
 gatccaaata acttatccac ttttttttaa aagaagtctt atctataaaa accttaaagg 60
 aattttccat ttactttcact ggtctagtaa aattatnnnn nnnnnnnnnn nnnnnnnnnn 120
 ntatataaac attcacacac atacatatgt acagggtattg ttattttgtaa ttgaccctt 180
 gtatttttta gtttaaaatg ttagtactgc aaaatgttat gtcctcaaaa acacattgta 240
 ccatgattat gccgctttca atattgtaaa gtgagggtttt tgccgcatta ttattttttg 300
 gatttcaata gcatagcttc aagttattcg taagaatttt ttataaataa tacattttta 360
 tactttttta taattaccat atctcatagt gaagtatata atatatatga tatnagctca 420
 atatagtata ttaattccgt taaacacaaa gacatatcag tttgtagctt tgggtgggata 480
 aacaaattaa ttttagcattc atgggctatg 510

<210> 55
 <211> 1302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 978531.2

<400> 55
 aagagcttat gacgttcgca tgcaacgcgt acgtaagcct cggaattccg gcttggaggc 60
 cacacctggg tgccagcgcc ccagaggtcc cgggacagcc cgaggcgccg cgcccgccgc 120
 cccgagctcc ccaagccttc gagagcggcg cacactcccg gtctccactc gctcttccaa 180
 caccgcctcg ttttggcggc agctcgtgtc ccagagaccg agttgcccc a gagaccgaga 240
 cgccgcccgt gcgaaggacc aatgagagcc ccgctgctac cgccggcgcc ggtgggtgctg 300
 tcgctcttga tactcggctc aggccattat gctgctggat tggacctcaa tgacacctac 360
 tctgggaagc gtgaaccatt ttctggggac cacagtgtctg atggatttga ggttacctca 420
 agaagtgaga tgtcttcagg gagtgagatt tcccctgtga gtgaaatgcc ttctagtagt 480
 gaaccgtcct cgggagccga ctatgactac tcagaagagt atgataacga accacaaata 540
 cctggctata ttgtcgatga ttcagtcaga gttgaacagg tagttaagcc ccccaaaac 600
 aagacggaaa gtgaaaatac ttcagataaa cccaaaagaa agaaaaaggg aggcaaaat 660
 ggaaaaaata gaagaaacag aaagaagaaa aatccatgta atgcagaatt tcaaaatttc 720
 tgcattcacg gagaatgcaa atatatagag cacctggaag cagtaacatg caaatgtcag 780
 caagaatatt tcggtgaacg gtgtggggaa aagtccatga aaactcacag catgattgac 840
 agtagtttat caaaaattgc attagcagcc atagctgcct ttatgtctgc tgtgatcctc 900
 acagctgttg ctgttattac agtccagctt agaagacaat acgtcaggaa atatgaagga 960
 gaagctgagg aacgaaagaa acttcgacaa gagaatggaa atgtacatgc tatagcataa 1020
 ctgaagataa aattacagga tatcacattg gagtctactgc caagtcatag ccataaatga 1080
 tgagtcggtc ctctttccag tggatcataa gacaatggac cctttttgtt atgatggttt 1140
 taaactttca attgtcactt tttatgctat ttctgtatat aaaggtgcac gaaggtaaaa 1200
 agtatttttt caagttgtaa ataatttatt taatatattaa tgggaagtgtt tttattttac 1260
 agctcattaa acttttttta ccaacaaaaa aaaaaaaaag gg 1302

<210> 56
 <211> 579
 <212> DNA
 <213> Homo sapiens

PA-0043 US

<220>
 <221> misc_feature
 <223> Incyte ID No: 979045.4

<220>
 <221> unsure
 <222> 570
 <223> a, t, c, g, or other

<400> 56
 attttattga tataagaagc ctaactttgt ttgaaaagtc taaactttta gtctagtcta 60
 cagttgtcag acaaatagca aattgtaccc ctaccttaaa aatattttca aaaagtatct 120
 ataactttat aggaataaat attttaggct tgaatactag tggtattttt gaaatgtaaa 180
 aaggcaaatt agttctagc tggtgtccca ttgaatttta agcagagctc ctggttgaat 240
 gtaggtaagc atctttccag caaataaaaa ttgtctccgc tgggagtttc agttttacct 300
 gatttgtacc taaggcaagc tgaatacaaa ccagtaaata tgcctaaaat tcttgtttta 360
 caactaattt tactttccac aggttgctgg tggtaggaat gttccacccg cagtacagaa 420
 agtatcacag gcttccattg accagagcag gcagatgaaa taccagtctt ttaatgagta 480
 ccgcaaacgc tttatgtcga agccctatga atcatttgaa gaacttacag gtaagaaaca 540
 gtttctaaac ttcttcgttt tttgtttgtt tggtttgtt 579

<210> 57
 <211> 4021
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 988653.1

<220>
 <221> unsure
 <222> 2612, 3290-3488
 <223> a, t, c, g, or other

<400> 57
 cgcagaactt ggggagccgc cgccgccatc cgccgcgcga gccagcttcc gccgccgcag 60
 gaccggcccc tgccccagcc tccgcagccg cggcgcgtcc acgcccgcgc gcgcccaggg 120
 cgagtcgggg tgccgcgctg cagcgttctc agtggtcccc gcgccccgca tgtaaccggg 180
 ccaggcccc gcaactgtgt cccctgcagc tccagccccg ggtgcaccc cccgcgcccg 240
 acaccagctc tccagcctgc tcgtccagga tggccgcggc caaggccgag atgcagctga 300
 tgtccccgct gcagatctct gaccggttcg gatcctttcc tctctgcgc accatggaca 360
 actaccctaa gctggaggag atgatgctgc tgagcaaacg ggctccccag ttccctcggcg 420
 ccgcccgggg cccagagggc agcggcagca acagcagcag cagcagcagc gggggcggtg 480
 gagggcgccg gggcgccagc aacagcagca gcagcagcag caccttcaac cctcaggcgg 540
 acacgggcga gcagccctac gagcacctga cccagagctc ttttcttgac atctctctga 600
 acaacgagaa ggtgctggtg gagaccagt accccagcca aaccactcga ctgcccccca 660
 tcacctatac tgcccgcttt tccctggagc ctgcacccaa cagtggcaac accttggtggc 720
 ccgagccctt cttcagcttg gtcagtggcc tagtgagcat gaccaaccca ccggcctcct 780
 cgtcctcagc accatctcca gcggcctcct ccgcctccgc ctcccagagc ccacctctga 840
 gctgcgcagt gccatccaac gacagcagtc ccatttactc agcggcacc accctcccca 900
 cgccgaacac tgacattttt cctgagccac aaagccaggc cttcccgggc tcggcagggg 960
 cagcgtccca gtaccgcct cctgcctacc ctgccccaa ggggtggctt cagggttccca 1020
 tgatccccga ctacctgttt ccacagcagc agggggatct gggcctgggc accccagacc 1080
 agaagccctt ccagggcctg gagagccgca cccagcagcc ttcgctaacc cctctgtcta 1140
 ctattaaggc ctttgccact cagtcgggct cccaggacct gaaggccctc aataccagct 1200
 accagtccca gctcatcaaa cccagccgca tgcgcaagta ccccaaccgg cccagcaaga 1260
 cgcccccca cgaacgcctt tacgcttgcc cagtggagtc ctgtgatcgc cgcttctccc 1320
 gctccgacga gctcaccgc ccatccgca tccacacagg ccagaagccc ttccagtgc 1380
 gcatctgcat gcgcaacttc agccgcagcg accacctcac caccacatc cgcaccaca 1440
 caggcgaaaa gcccttcgcc tgcgacatct gtggaagaaa gtttgccagg agcgatgaac 1500
 gcaagaggca taccaagatc cacttgccgc agaaggacaa gaaagcagac aaaagtgttg 1560

PA-0043 US

```

tggcctcttc ggcacacctc tctctctctt cctaccgctc cccggttgct acctcttacc 1620
cgtccccggt tactacctct tatccatccc cggccaccac ctcataccca tccccgtgct 1680
ccacctcctt ctctctctcc ggctcctcga cctaccatc cctgtgacac agtggcttcc 1740
cctccccgtc ggtggccacc acgtactcct ctgttcccc cgttttccc gcccagggtc 1800
gcagcttccc ttctcagct gtcaccaact ccttcagcgc ctccacaggg ctttcggaca 1860
tgacagcaac cttttctccc aggacaattg aaatttgcta aagggaaagg ggaaagaaag 1920
ggaaaaggga gaaaaagaaa cacaagagac ttaaaggaca ggaggaggag atggccatag 1980
gagaggaggg ttctctcttag gtcagatgga ggttctcaga gccaaagtct cctctctac 2040
tggagtggaa ggtctatttg ccaacaatcc tttctgccc cttccccctt cccaattact 2100
attccctttg acttcagctg cctgaacacg ccatgtccaa gttcttcacc tctatccaaa 2160
gaacttgatt tgcattggatt ttggataaat catttcagta tcatctccat catatgcctg 2220
acctcttgct ccttcaatg ctagaaaatc gagttggcaa aatgggggtt gggccctca 2280
gagccctgcc ctgcaccctt gtacagtgtc tgtgccatgg atttcgtttt tcttggggta 2340
ctcttgatgt gaagataatt tgcataattc attgtattat ttggagttag gtcctcactt 2400
gggggaaaac caaaaagga aaagccaagc aaaccaatgg tgatcctcta ttttgtgatg 2460
atgctgtgac aataagtttg aacctttttt tttgaaacag cagtcccagt attctcagag 2520
catgtgtcag agtgttggtc cgttaacctt tttgtaaata ctgcttgacc gtactctcac 2580
atgtggcaaa atatggtttg gtttttcttt tntttttttt ttgaaagtgt tttttcttcg 2640
tccttttggt ttaaaaagtt tcacgtcttg gtgccttttg tgtgatgcgc cttgtgatg 2700
gcttgacatg tgcaattgtg agggacatgc tcacctctag ccttaagggg ggcaggaggt 2760
gatgatattg ggaggcctt gggagcaaaa taaggaagag ggctgagctg agcttcgggt 2820
ctccagaatg taagaaaaca aaatctaaaa caaatctga actctcaaaa gtctattttt 2880
ttaactgaaa atgtaaatat ataaatatat tcaggagttg gaatgttgta gttacctact 2940
gagtaggcgg cgatttttgt atgttatgaa catgcagttc attattttgt ggttctattt 3000
tactttgtac ttgtgtttgc ttaaacaaag tgactgtttg gcttataaac acattgaatg 3060
cgctttattg cccatgggat atgtgtgtga tacccttcca aaaaattaaa acgaaaataa 3120
agtagctgcg attgggtatg tgtttcctgg gttaggggaa ggactctgcc ctattgaggg 3180
ctgtgaggtt ttctgaagac ttggccttta gagatacaag gatcctccag ccagagtcag 3240
gccactgtg tgaaactgga gttcgttatt tatgaggact gagtatgggn nnnnnnnnnn 3300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 3480
nnnnnnnnnt cttgataatg ggctgttcc tcttcagtc gttgggctga agctttacct 3540
tggttagcta aagccaagaa aggcaagagt tagggctggg acatgtgtgg ccaaaggcag 3600
tgttactctc ctggcatcaa atgttggggc agtcccgctc cccacctcta ctcagggttg 3660
gaaaacccat gatcttggga atccctgcc tgtgcagtta gaggaggtaa gaagtaggca 3720
caaggccttt aggggaacag taacaatgct ggggccgact cagcctctcc ctccattcc 3780
ccaggctccc agcaacttga gggcatcaaa gaagcctaga cgaggtaaag gccagttctc 3840
aagccaagaa tccttcagg aagaaattct tattacttgc cagctggaac tgccatcctt 3900
ggcagcttcg tgggacaaag gatagagtgg gcagaagcct ggcctggtgt ctaaagttcc 3960
catccgggcc aaatctgttc ccattgtgta ggaggcctga ggttctaggt tcttttgggc 4020
c 4021

```

<210> 58

<211> 1743

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 988891.1

<220>

<221> unsure

<222> 1562

<223> a, t, c, g, or other

<400> 58

```

ggtattcaac agagaaatct ctcagcctcc tacttctgct tttgaaagct ataaaaacag 60
cgaggagaaa actggcagat accaaacctc ttcagggcac aagggcacaa caggctgctc 120
tggtattctc ttccagccaat cttcattgct caagtgtctg aagcagccat ggcagaagta 180
cctgagctcg ccagtgaat gatggcttat tacagtggca atgaggatga cttgttcttt 240

```

PA-0043 US

```

gaagctgatg gccctaaaca gatgaagtgc tccttccagg acctggacct ctgccctctg 300
gatggcggca tccagctacg aatctccgac caccactaca gcaagggcct caggcaggcc 360
gcgtcagttg ttgtggccat ggacaagctg aggaagatgc tggttccctg cccacagacc 420
ttccaggaga atgacctgag caccttcttt cccttcatct ttgaagaaga acctatcttc 480
ttcgacacat gggataacga ggcttatgtg cacgatgcac ctgtacgatc actgaactgc 540
acgctccggg actcacagca aaaaagcttg gtgatgtctg gtccatatga actgaaagct 600
ctccacctcc agggacagga tatggagcaa caagtgggtg tctccatgtc ctttgtacaa 660
ggagaagaaa gtaatgacaa aatacctgtg gccttggggc tcaaggaaaa gaatctgtac 720
ctgtcctgcg tggtgaaaga tgataagccc actctacagc tggagagtgt agatcccaa 780
aattacccaa agaagaagat ggaaaagcga tttgtcttca acaagataga aatcaataac 840
aagctggaat ttgagttctg ccagttcccc aactgggtaca tcagcacctc tcaagcagaa 900
aacatgcccc tcttcctggg agggacccaa ggaggccagg atataactga cttcaccatg 960
caatttgtgt cttcctaaag agagctgtac ccagagagtc ctgtgctgaa tgtggactca 1020
atccctaggg ctggcagaaa gggacagaa aggtttttga gtacggctat agcctggact 1080
ttcctgttgt ctacaccaat gcccactgc ctgccttagg gtagtgctaa gaggatctcc 1140
tgtccatcag ccaggacagt cagctctctc ctttcagggc caatccccag cccttttgtt 1200
gagccaggcc tctctcacct ctctactca cttaaagccc gcctgacaga aaccacggcc 1260
acatttggtt ctaagaaacc ctctgtcatt cgctcccaca ttctgatgag caaccgcttc 1320
cctatttatt tatttatttg tttgtttgtt ttattcattg gtctaattta ttcaaagggg 1380
gcaagaagta gcagtgtctg taaaagagcc tagtttttaa tagctatgga atcaattcaa 1440
tttggaactg tgtgctctct ttaaatacaag tcctttaatt aagactgaaa atatataagc 1500
tcagattatt taaatgggaa tatttataaa tgagcaaata tcatactgtt caatggttct 1560
gngcttatat attttcagtc ttaattaaag gactgggtgtg ctctctttaa atcaagtcct 1620
ttaattaaga ctgaaaatat ataagctcag attattttaa tgggaatatt tataaatgag 1680
caaatatcat actgttcaat gggtcttcag tgaagtttat ttcagaaaaa aaaaaaaag 1740
ggg 1743

```

<210> 59

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 988891.15

<220>

<221> unsure

<222> 14

<223> a, t, c, g, or other

<400> 59

```

attttgctag agantgttct aaaaccattg cactttactt acaactcctg tccggaaggt 60
gcgaggcaac aagtttttac agccttcaca gaggagtctc tggcagcacc tgtacgatca 120
ctgaactgca cgctccggga ctcacagcaa aaaagcttgg tgatgtctgg tccatagtaa 180
ctgaaagctc tccacctcca gggacaggat atggagcaac aagtgggtgt ctccatgtcc 240
tttgtacaag gagaagaaa taatgacaaa atacctgtgg ccttgggcct tcaaggaaaa 300
gaatctgtac ctgtcctgcg tggtgaaaga tggataaagc ccacttctac agctgggaga 360
gtgttaggat ccccaaaaaa atttacccca a 391

```

<210> 60

<211> 3000

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995610.1

<400> 60

```

ggagtttatt cataacgcgc tctccaagta tacgtggcaa tgcgttgctg gggtatttta 60
atcattctag gcacgtttt cctccttatg cctctatcat tcctccctat ctacactaac 120

```

PA-0043 US

```

atcccacgct ctgaacgcgc gccattaat acccttcttt cctccactct ccctgggact 180
cttgatcaaa gcgcggccct ttccccagcc ttagcgaggc gccctgcagc ctggtacgcg 240
cgtggcgctgg cggtggggcgc gcagtgcgtt ctcggtgtgg agggcagctg ttccgcctgc 300
gatgatttat actcacagga caaggatgcg gtttgtcaaa cagtactgct acggaggagc 360
agcagagaaa gggagagggg ttgagagggg gcaaaagaaa atggtaggcg cgcgtagtta 420
attcatgcgg ctctcttact ctgtttacat cctagagcta gagtgtcgcg ctgcccggct 480
gagtctcctc cccaccttcc ccacctccc cacctcccc ataagcgccc tcccgggttc 540
ccaaagcaga gggcgtgggg gaaaagaaaa aagatcctct ctgcgtaatc tccgcccacc 600
ggccctttat aatgcgaggg tctggacggc tgaggacccc cgagctgtgc tgctcgcggc 660
cgccaccgcc gggccccggc cgtccctggc tcccctctcg cctcgagaag ggcaggcgtt 720
ctcagaggct tggcgggaaa aagaacggag ggagggatcg cgctgagtat aaaagccggt 780
tttcggggct ttatctaact cgctgtagta attccagcga gaggcagagg gacgcagcgg 840
gcggccggct aggggtggaag agccgggcga gcagagctgc gctgcggggc tccctgggaag 900
ggagatccgg agcgaatagg gggcttcgcc tctggcccag cctcccgct gatccccag 960
ccagcggctc gcaacccttg ccgcattcac gaaactttgc ccatagcagc gggcgggcac 1020
tttgactggt aacttacaac acccgagcaa ggacgcgact ctcccgacgc ggggaggcta 1080
ttctgcccac ttggggacac ttccccgcgc ctgccaggac ccgcttctct gaaaggctct 1140
ccttgacgct gcttagacgc tggatttttt tcgggtagtg gaaaaccagc agcctcccgc 1200
gacgatgccc ctcaacgcta gcttcaccaa caggaaactat gacctcgact acgactcggc 1260
gcagcgttat ttctactcgc acgaggagga gaacttctac cagcagcagc agcagagcga 1320
ggctgcagcc cccggcgccc agcgaggata tctggaagaa attcgagctg ctgcccaccc 1380
cgccctgtc cctagccgc cgctccgggc tctgctgcc ctctacgtt gcggtcacac 1440
ccttctccct tcggggagac aacgacggcg gtggcgggag cttctccacg gccgaccagc 1500
tgagatggg gaccgagctg ctgggaggag acatggtgaa ccagagtttc atctgcgacc 1560
cggacgacga gaccttcac tcaaacatca tcatccagga ctgtatgtgg agcggtctct 1620
cggccgcgcg caagctcgtc tcagagaagc tggcctccta ccaggctgcg cgcaaagaca 1680
gcggcagccc gaaccccgcc cgcgccaca gcgtctgctc cacctccagc ttgtacctgc 1740
aggatctgag cgccgcgcc tcagagtgc tcgacccctc ggtggtcttc cctaccctc 1800
tcaacgacag cagctcgccc aagtcctgcg cctcgcaaga ctccagcgc ttctctccgt 1860
cctcgattc tctgtctctc tcgacggagt cctccccgca gggcagcccc gagccctgg 1920
tgctccatga ggagacaccg cccaccacca gcagcgactc tgaggaggaa caagaagatg 1980
aggaagaaat cgatgttgtt tctgtggaaa agaggcaggc tcctggcaaa aggtcagagt 2040
ctggatcacc ttctgctgga ggccacagca aacctcctca cagccactg gtcctcaaga 2100
ggtgccacgt ctccacacat cagcacaact acgcagcgcc tccctccact cggaaggact 2160
atcctgctgc caagagggtc aagttggaca gtgtcagagt cctgagacag atcagcaaca 2220
accgaaaatg caccagcccc aggtcctcgg acaccgagga gaatgtcaag aggcgaacac 2280
acaacgtctt ggagcgccag aggaggaacg agctaaaacg gagctttttt gccctgcgtg 2340
accagatccc ggagttggaa aacaatgaaa agggccccaa ggtagttatc cttaaaaaag 2400
ccacagcata catcctgtcc gtccaagcag agggagcaaaa gctcatttct gaagaggact 2460
tggtgcggaa acgacgagaa cagttgaaac acaaacttga acagctacgg aactcttgtg 2520
cgtaaggaaa agtaaggaaa acgattcctt ctaacagaaa tgtcctgagc aatcacctat 2580
gaacttgttt caaatgcatg atcaaatgca acctcacaac cttggctgag tcttgagact 2640
gaaagattta gccataatgt aaactgcctc aaattggact ttgggcataa aagaactttt 2700
ttatgcttac catctttttt ttttctttaa cagatttgta ttttaagaatt gtttttaaaa 2760
aattttaaga tttacacaat gtttctctgt aaatattgcc attaaatgta aataacttta 2820
ataaaacggt tatagcagtt acacagaatt tcaatcctag tatatagtac ctagtattat 2880
aggtactata aaccctaatt ttttttattt aagtacattt tgctttttta agttgatttt 2940
tttctattgt ttttagaaaa aataaaataa ctggcacaata tatcattgag ccaaaaaaaa 3000

```

<210> 61

<211> 2912

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 037877.2

<400> 61

```

gacggcggaa gttccgggag tgccaagtag ccgcgtgcat acggctgcgc gcatggcaca 60
ttacaacttc aagaaaatta cgggtgggtgcc gtccgccaag gacttcatag acctcacgtt 120
gtcgaagact caacgaaaga ctccaaccgt tattcataaa cattaccaa tacatcgcat 180

```

PA-0043 US

tagacatttt	tacatgagaa	aagtcaaatt	tactcaacag	aattaccatg	atagactttc	240
acaaatttcta	acagatttcc	ccaaatttga	tgatattcat	ccgttctatg	ctgatttgat	300
gaatatttctc	tacgacaagg	atcattacaa	gttggctctg	gggcaaataa	atatttgcaa	360
aaatttagtg	gacaatgttg	ctaaagatta	tgtgcgactg	atgaagtatg	gcgactctct	420
ctaccgctgc	aaacagctga	agcgtgcggc	cctgggacgg	atgtgcacag	tgatcaagag	480
gcagaagcag	agtttgaggt	atttgaggca	agtgcgtcag	catttatccc	gtttgccaac	540
cattgatccg	aataccagga	ccctgctttt	gtgtgggtac	ccaaatgttg	ggaagtccag	600
cttcatcaac	aagggtgacga	gagcagacgt	ggatgtccag	ccctatgctg	tcacaaccaa	660
gtctctgttt	gttgggcaca	tggattataa	gtatctacgt	tggcagggtg	tagacactcc	720
tgggatcctg	gaccaccctc	tggaggatag	gaacaccatc	gagatgcagg	ccatcactgc	780
cctggccccac	ctccgtgctg	cagtcctgta	tgtgatggat	ttgtctgagc	agtgtgggca	840
tgggctgagg	gagcagctag	aaactcttcca	gaacatcaga	cctctcttca	tcaacaagcc	900
tctcatagtt	gtagccaaca	aatgtgatgt	gaagagaata	gctgaacttt	ctgaagatga	960
tcagaaaata	tttacagatt	tgcagtctga	aggattccct	gtaatagaga	ccagcaccct	1020
gactgaggaa	ggtgttatta	aagttaaaac	agaggcttgc	gataggcttt	tggctcatcg	1080
agtggaaacc	aaaatgaagg	gaaataaagt	gaatgaggtg	ctgaatagac	tgcacctggc	1140
tatcccaacc	aggaggacg	ataaggagag	gccccctttc	atccctgaag	gagtgggtggc	1200
tcgcaggaag	aggatggaaa	ctgaggagtc	caggaagaag	agggaacgag	atcttgagct	1260
ggaaatggga	gatgattata	ttttggatct	tcagaagtac	tgggatttaa	tgaatttgct	1320
tgaaaaacat	gataagatac	cagaaatctg	ggaaggccat	aatatagctg	atttatattga	1380
tccagccatc	atgaagaaat	tgggaagaat	agaaaaagaa	gaagagctga	gaacagctgc	1440
tggagagtat	gacagtgtat	ctgagagtga	agacgaagag	atgctggaaa	tccgacagct	1500
ggcaaagcaa	attcgagaga	aaaagaagtt	gaaaattctg	gagtccaaag	aaaagaatac	1560
acagggaccc	aggatgccgc	gaactgctaa	gaaggttcag	aggacagttt	tggagaagga	1620
gatgcgtagt	cttgggtgtg	acatggacga	taaagacgat	gcccattacg	cagtcagggc	1680
aagaagatcc	cggagcatca	ctaggaaaaag	aaagcgggaa	gactctgctc	ccccgtcctc	1740
tgtggccccg	agtgggagtt	gctctcgaac	tccacgtgac	gtttctgggtc	ttagggatgt	1800
caagatgggt	aagaaagcca	agactatgat	gaagaatgct	cagaagaaga	tgaatcggtt	1860
ggggaagaaa	ggggaggcgg	atagacacgt	gtttgatatg	aagcccaagc	acttgctgtc	1920
tgggaagagg	aaagctggta	aaaaggacag	gagatagtat	ccgtttgggt	ggcgtggctt	1980
cgctagagt	ttgctgttta	tttcttggtt	tggcacagta	tggtttcatg	aaattggagc	2040
tctgtataaa	ctgaaaaaga	caaaataagt	aaagcacttg	ttgctttgct	gaaaactatg	2100
gttaacccta	tataggtgtg	ggaaattttt	gtcactgcat	aatattacaa	atattttgag	2160
tagacagtgt	ttccacattt	aatggagtat	cagttgcttc	agattttcag	aactgggaag	2220
atttactggt	gtaactgggt	tgtttttgat	ggagaaaaac	cttattttct	tttgtaagag	2280
ctgggagcaa	acacgtttat	gagtgtgtcg	gaatcccgtg	cttaaaatac	gctcttaaat	2340
tatttttctag	tcttatttta	caatgtctca	ttgtagtctg	tcttcaacta	ttttatccaa	2400
aataaacctc	cagaagaaag	tagttttcat	ttacttagct	catgttttgg	tttagttata	2460
gtcgtcatgg	atttggccaa	ataaaaaggc	aaacaacatg	acattttctat	tttgtttttaa	2520
agcaaaaata	cttttggggg	agtaaaatgt	tgctggaggc	attaggcaat	taaatatggg	2580
catttctcta	tttctgtggc	ccgtccctga	agttacatgt	tcagtaaaac	acaaaaacac	2640
cgccaatgcc	acctcaaaag	cacctgctgg	ggagcgttgg	ggtgaagagc	tgtgggggtcg	2700
gagggacctg	cccaggggtc	cgtgtgctcc	tggagctcca	aagacacaca	ggggctccaa	2760
agccaccacg	gataagttat	caagtcacac	aatcaacatt	atagctgagg	aaaggacttt	2820
agttaatcac	acttctggat	tacatgtggc	aatttttaaa	atttaccagg	gctgggctgg	2880
gcgcagggct	caagcctgta	gttccagcac	tt			2912

<210> 62

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 067849.1

<220>

<221> unsure

<222> 316

<223> a, t, c, g, or other

<400> 62

PA-0043 US

tactgtttga	aggagactga	gtaccaaatt	catcattgca	tttctccacc	tggaaatggt	60
aagaaaggaa	tatcttcato	atgctcttag	acttagtatg	atggacactg	tgatattgga	120
attactcttt	cttggtcata	tccatctgct	tgcataggac	gagactgaaa	atcttttagca	180
ggatttataa	acgtctttgg	aatgatgtag	cacaacagtg	ttttactgtg	gggaatgggg	240
aatgactatc	tgaaagggaa	aattgttttg	cattttatat	tatttccagg	cagtgcaaac	300
tgtctagcaa	gtagantggt	catatatgaa	tctaatatag	caaatttatc	cctcataata	360
ctgtttttga	aacatcaagt	ttattctcaa	tgtgtggctc	taatgacaat	ttcttgggaa	420
cgtaatagaa	ctgcaataat	gactaatgga	aaagactcta	aagctgtatc	tgatgggaaa	480
tgatttactt	tttaaactct	ttctatttaa	ggaattagct	taccgaaagg	agatggtgag	540
agctgacct	gttaacaaaa	aagttggaat	cagagaaact	ccagaaaatc	ttgccaaact	600
tctgaccagg	atgtattttaa	aatcagaagt	cataggtgat	ggggaatcag	attga	655

<210> 63

<211> 2179

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 067849.3

<400> 63

cccacgcgtc	cgcgacacac	catgccgact	gtcagcgtga	agcgtgatct	gctcttccaa	60
gccctggggc	gcacctacac	tgacgaagaa	tttgatgaac	tatgttttga	atattggtctg	120
gagcttgatg	aaattacatc	tgagaaggaa	ataataagta	aagaacaagg	taatgtaaag	180
gcagcaggag	ccctctgatg	ttgttcttta	caaaattgac	gtccctgcca	atagatatga	240
tctcctgtgt	ctggaaggat	tggttcgagg	acttcaggct	ttcaaagaaa	ggataaaggc	300
tccagtgtat	aaacgggtaa	tgctctgatg	aaaaatccag	aaattgatta	tcacagaaga	360
gacagctaag	atacgtcctt	ttgcggtagc	agcagttctc	cgtaatatata	agtttactaa	420
agatcgatat	gacagcttca	ttgaacttca	ggagaaatta	catcagaata	tttgcaggaa	480
aagagcactg	gttgccattg	gtacccatga	tttggacact	ttgtcggggc	catttactta	540
tactgcaaag	cgtccttcag	atatcaaatt	caagcctcta	aataagacca	aggagtatac	600
agcctgtgaa	ctgatgaaca	tatacaagac	tgacaatcac	ctgaaacatt	atttacatat	660
cattgaaaac	aaacccctgt	atccagttat	ctatgatagc	aatggtgtcg	tcctttcaat	720
gcctcccatc	atcaatgggg	atcattccag	aataacagta	aatactagaa	atatttttat	780
tgaatgcacg	ggaactgact	ttactaaggc	aaaaatagtt	cttgatatta	ttgtcaccat	840
gttcagttaa	tattgtgaga	atcaatttac	ggtcgaagct	gctgaagtgg	tttttcctaa	900
tggaaaatca	catacctttc	cagaattagc	ttaccgaaag	gagatggtga	gagctgacct	960
aattaacaaa	aaagttggaa	tcagagaaac	tccagaaaat	cttgccaaac	ttctgaccag	1020
gatgtattta	aaatcagaag	tcataggtga	tgggaatcag	attgagattg	aaatccctcc	1080
aaccagagct	gacattatcc	atgcatgtga	tattgtagaa	gatgcagcta	ttgcttatgg	1140
atataacaac	attcagatga	ctctcccga	aacttacacc	atagctaata	aatttcctct	1200
taataagctc	actgaacttc	tccgacatga	catggcagcc	gctggcttca	ctgaagcact	1260
tacctttgcc	ctgtgctccc	aagaagatat	tgctgataaa	ctaggtgtgg	atatctctgc	1320
aacaaaggga	gtccacataa	gtaatcctaa	aacagctgaa	tttcagggtg	cacgcactac	1380
ccttcttcct	ggcctcctga	agaccatagc	agcaaatcgt	aagatgcccc	ttccactgaa	1440
actgtttgaa	atctctgaca	ttgtaataaa	agatttcta	acagatgtag	gtgcaaaaaa	1500
ctacagacat	ctctgtgctg	tttattacaa	caagaatcct	gggtttgaga	tcattcatgg	1560
gctgctggac	agaattatgc	agttgctcga	tgtgcctcct	gggtgaagaca	aggggggata	1620
tgtgatcaaa	gcatcagaag	ggcctgcttt	cttccccggg	cgatgtgcag	agatctttgc	1680
caggggtcaa	agcgtcgggg	agcttgggg	ccttcacoc	gacgttatca	ccaaatttga	1740
getgaccatg	ccctgctcct	ccctagaaat	caatgttgga	ccctttttgt	gaagattggt	1800
ctctgtgggt	tgattctctt	cccagggtgc	cctttctcct	cccctagtgt	ccttaagtcc	1860
tctctccacg	ggaacctcta	tttgggcttt	gatgtttaat	aaagtagaaa	gcactgtctg	1920
gtgtgtgtgg	tagagacct	cctttccctg	catattaggc	cagcttgtgc	catataccaa	1980
tgtgtgtgtc	gtgtgtgaag	ctgcattgtt	gggtaaaagc	cccgtggaat	gctggagaaa	2040
tgcactagca	gagtgacagga	tctgttctga	aaggcagacg	tgctcctcag	acatcagaac	2100
atcacattgg	aacggattac	tctgcataa	caagatccca	tttctttcct	tattgataaa	2160
acaagataat	cgatgagaa					2179

<210> 64

<211> 498

PA-0043 US

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 110245.1

<400> 64

```
cgccctgggtta aatatTTTTTg gcaagagtagc ttcataaggcc accctcaaaa tttcagcatc 60
actcgtacca agtatctatc acaaggcagc atgtgtctac atctccaccc cagtgtctgtt 120
acagtggggac agtttctagt gtattgtcat tgcgaccagg cttttaagat tcttagcata 180
tctgtaatat ccacatgcag atgtagaatc caaatcgtat ttacagagaa ctttgcattg 240
cagcttttat atggtagtga tacattcagt ttcttacatt ctagattatt cagggaggtt 300
ctggagtgtg acagatttgg ggtaagcct gatggctagc tgtgtgacct tacacacctc 360
gcttcatctg tttcctatgg gaatttataa tagtagctac ttcctagggc acaggatctg 420
gccaggggaa gacctcagtg ttagtggact ctttaatgat cgtttagcagc tgttgtgac 480
ataaaacgag aagcacat 498
```

<210> 65

<211> 1243

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1135415.6

<400> 65

```
gtccctccag ccagctgtac agctcccaaa ttccggggccg agattcccgg gaacaaagca 60
agaaaaatca gagcaatttg ggaagtaaagc agaaactgga aaggagagg gaaagaagag 120
tgaggaggac ccaggttggg ggggccctct ccagtcacac ccagtttagg gaatgcccc 180
gccctctccc ccacccccct tcacctggct cttaaagggc cggggccctg gccggcggct 240
acttaagaca gaggggcggc ggccggcagc agctgcgctg cgactgctct ggaaggagag 300
gacggggcac aaacctgac catgaccccc cacaggctgc tgccaccgct gctgctgctg 360
ctagctctgc tgctcgctgc cagcccagga ggcgccttgg cgcgggtgcc aggctgcggg 420
caaggggtgc aggggggttg tccagggggc tgcgtggagg aggaggatgg ggggtcgcca 480
gccgagggtc gcgcggaagc tgagggtgt ctgaggagg aggggcagga gtgcggggtc 540
tacaccccta actgcgccc aggactgcag tgccatccgc ccaaggacga cgaggcgct 600
ttgcgggcgc tgctgctcgg ccgaggccgc tgccttccgg ccgcgcgcgc tgctgttgca 660
gaggagaatc ctaaggagag taaaccccaa gcaggcactg cccgccaca ggatgtgaac 720
cgcagagacc aacagaggaa tccaggcacc tctaccacgc cctcccagcc caattctgcg 780
ggtgtccaag aactgagat ggtgcgtttg gagatgggcc catgccgtag acatctggac 840
tcagtgtctg agcaactcca gactgaggtc taccgagggg ctcaaact ctacgtgcc 900
aattgtgacc atcgaggctt ctaccggaag cggcagtgcc gctcctccca ggggcagcgc 960
cgaggctcct gctggtgtgt ggatcggatg ggcaagtccc tgccagggtc tccagatggc 1020
aatggaagct cctcctgccc cactgggagt agcggctaaa gctgggggat agaggggctg 1080
cagggccact ggaaggaaca tggagctgtc atcactcaac aaaaaaccga ggccctcaat 1140
ccaccttcag gcccgcgcc atggggccct caccgctggt tggaaagagt gttggtgttg 1200
gctggggtgt caataaagct gtgcttgggg tcgcaaaaaa aaa 1243
```

<210> 66

<211> 764

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1384718.29

<400> 66

```
catttctatt gaaaaagcaa gcaagcagaa tttggaattc atccaatcca aatgcggcat 60
cttcaaacct ccatgatgct gcttacatgt ctcgatattt acttaaaaaa tatttatgat 120
```

PA-0043 US

acttaaaatt	caaaaggaaa	cctgcaagac	ctatTTTTct	cccaatacat	tcactgaatg	180
cagatttaaa	tgagtgcac	tcattttgat	tgtgcccttt	gtgtacttta	aaatgactac	240
aatatagtag	atttgtat	ttaactggta	ccaaaattaa	gatgaatcct	ggactcaatc	300
atggcttg	gtctggctgc	cagcaacctg	aatctcaaac	ctggagagtg	ccttcgagtg	360
cgaggcgagg	tggtcctga	cgctaagagc	ttcgtgctga	acctgggcaa	agacagcaac	420
aacctgtgcc	tgcacttcaa	ccctcgcttc	aacgcccacg	gcgacgcaa	caccatcgtg	480
tgcaacagca	aggacggcgg	ggcctggggg	accgagcagc	gggaggctgt	ctttcccttc	540
cagcctggaa	gtgttgacga	ggtgtgcac	accttcgacc	aggccaacct	gaccgtcaag	600
ctgccagatg	gatacgaatt	caagttcccc	aaccgcctca	acctggaggc	catcaactac	660
atggcagctg	acggtgactt	caagatcaaa	tgtgtggcct	ttgactgaaa	tcagccagcc	720
catggccccc	aataaaggca	gctgcctctg	ctccctctga	aaaa		764

<210> 67

<211> 1505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 199471.2

<400> 67

caggaaggct	gagagaaagg	gcagggtcccc	gctgcgtggg	gctgggctta	aaggctcgtc	60
gcgcctgcc	aaggacctga	cgacgtgctg	cgctgttact	tttgaaacgc	ttggcgggga	120
agtgcgtgtg	gagccgctgt	ggttgctgtc	cgcgagtggt	aagcgccgtg	cttttgtttg	180
tgtccctggc	catggcgctg	cagctctccc	gggagcaggg	aatcaccctg	cgcgggagcg	240
ccgaaatcgt	ggccgagttc	ttctcattcg	gcacaaacag	cattttatat	cagcgtggca	300
tatatccatc	tgaacacctt	actcgagtgc	agaaatacgg	actcaccttg	cttgtaacta	360
ctgatcttga	gctcataaaa	tacctaaata	atgtggtgga	acaactgaaa	gattggttat	420
acaagtgttc	agttcagaaa	ctggttgtag	ttatctcaaa	tattgaaagt	ggtgaggtcc	480
tggaagatg	gcagtttgat	attgagtgtg	acaagactgc	aaaagatgac	agtgcaccca	540
gagaaaagtc	tcagaaagct	atccaggatg	aaatccgttc	agtgatcaga	cagatcacag	600
ctacggtgac	atctctgcca	ctggttggaag	ttctctgttc	atctgatctg	ctgatttata	660
cagacaaaga	tttggttgta	cctgaaaaat	gggaagagtc	gggaccacag	tttattacca	720
attctgagga	agtccgcctt	cgttcattta	ctactacaat	ccacaaagta	aatagcatgg	780
tggcctacaa	aattcctgtc	aatgactgag	gatgacatga	ggaaaataat	gtaattgtaa	840
ttttgaaatg	tggttttcct	gaaatcagg	catctatagt	tgatatgttt	tatttcattg	900
gttaattttt	acatggagaa	aaccaaaatg	atacttactg	aactgtgtgt	aattgttcct	960
tttatttttt	tggtacctat	ttgacttacc	atggagttaa	catcatgaat	ttattgcaca	1020
ttgttcaaaa	ggaaccagga	ggtttttttg	tcaacattgt	gatgtatatt	cctttgaaga	1080
tagtaactgt	agatggaaaa	acttgtgcta	taaagctaga	tgccttccct	aatcagatgt	1140
tttggtcaag	tagtttgact	cagtataggt	agggagatat	ttaagtataa	aatacaacaa	1200
aggaagtcta	aatattcaga	atctttgtta	aggtcctgaa	agtaactcat	aatctataaa	1260
caatgaaata	ttgctgtata	gtcctttttg	accttcattt	catgtatagt	tttccctatt	1320
gaatcagttt	ccaattattt	gactttaatt	tatgtaactt	gaacctatga	agcaatggat	1380
atttgtactg	tttaatgttc	tgtgatacag	aactcttaaa	aatgtttttt	catgtgtttt	1440
ataaaatcaa	gttttaagtg	aaagtgagga	aataaagtta	agtttgtttt	aaatttgtct	1500
taaaa						1505

<210> 68

<211> 3074

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 199636.2

<400> 68

gtcacgggtg	gcgggcgcgg	gaaggggatt	tggattgttg	cgctctgct	ctgaagaaag	60
tgtgtgtctg	ctccaactcc	agttctttcc	cctgagcagc	gcctggaacc	taacccttcc	120
cactctgtca	ccttctcgat	cccgcgcggc	ctttagagcc	gcagtccagt	cttggtatcct	180

PA-0043 US

```

tcagagcctc agccactage tgcgatgcat gtgatcaagc gagatggccg ccaagaacga 240
gtcatgtttg acaaaattac atctcgaatc cagaagcttt gttatggact caatatggat 300
tttgttgatc ctgctcagat caccatgaaa gtaatccaag gcttgtacag tggggtcacc 360
acagtggaaac tagatacttt ggctgctgaa acagctgcaa ccttgactac taagcaccct 420
gactatgcta tcttggcagc caggatcgct gtctctaact tgcacaaaga aacaaagaaa 480
gtgttcagtg atgtgatgga agacctctat aactacataa atccacataa tggcaaacac 540
tctcccatgg tggccaagtc aacattggat attgttctgg ccaataaaga tcgcctgaat 600
tctgctatta tctatgaccg agatttctct tacaattact tcggctttta gagcctagag 660
cggctctatt tgttgaagat caatggaaaa gtggctgaaa gaccacaaca tatgttgatg 720
agagtatctg ttgggatcca caaagaagac attgatgcag caattgaaac atataatctt 780
ctttctgaga ggtgggtttac tcatgcttcg cccactctct tcaatgctgg taccaaccgc 840
ccacaacttt ctagctgttt tcttctgagt atgaaagatg acagcattga aggcatttat 900
gacactctaa agcaatgtgc attgatttct aagtctgctg gaggaattgg tgttgctgtg 960
agttgtattc gggctactgg cagctacatt gctgggacta atggcaattc caatggcctt 1020
gtaccgatgc tgagagtata taacaacaca gctcgatatg tggatcaagg tgggaacaag 1080
cgtcctgggg catttgctat ttacctggag ccttggcatt tagacatctt tgaattcctt 1140
gatttaaaga agaacacagg aaaggaagag cagcgtgccg gagatctttt ctttgcctt 1200
tggattccgg atctcttcat gaaacgagtg gagactaatc aggactggtc ttgatgtgt 1260
ccaaatgagt gtccctggtct ggatgaggtt tggggagagg aatttgagaa actatatgca 1320
agttatgaga aacaaggctc tgtccgcaaa gttgtaaaag ctccagcagc ttggtatgcc 1380
atcattgagt ctccagacgga aacaggcacc ccgtatatgc tctacaaaga ttctgtaat 1440
cgaaagagca accagcagaa cctgggaacc atcaaagtc gcaacctgtg cacagaaata 1500
gtggagtaca ccagcaaaga tgaggttgct gtttgtaatt tggcttcctt ggccctgaat 1560
atgtatgtca catcagaaca cacatacgac tttaagaagt tggctgaagt cactaaagtc 1620
gttgctccga acttgaataa aattattgat ataaactact atcctgtacc agaggcatgc 1680
ctatcaaata aacgccatcg ccccatggga attggggtag aaggctctggc agatgctttt 1740
atcctgatga gatacccttt tgagagtgc gaagcccagt tactgaataa gcagatcttt 1800
gaaactattt attatgggtg tctggaagcc agctgtgacc ttgccaagga gcagggccca 1860
tacgaaacct atgagggctc tccagtttag aaaggaattc ttcagtatga tatgtggaat 1920
gttactccta cagacctatg ggactggaag gttctcaagg agaagattgc aaagtatggt 1980
ataagaaaca gtttacttat tgccccgatg cctacagctt ccactgctca gatcctgggg 2040
aataatgagt ccattgaacc ttacaccagc aacatctata ctccagagat cttgtcagga 2100
gaatttcaga ttgtaaatcc tcaattattg aaagatctta ccgagcgggg cctatggcat 2160
gaagagatga aaaaccagat tattgcatgc aatggctcta ttcagagcat accagaaatt 2220
cctgatgacc tgaagcaact ttataaaact gtgtgggaaa tctctcagaa aactgttctc 2280
aagatggcag ctgagagagg tgctttcatt gatcaaagcc aatctttgaa catccacatt 2340
gctgagccta actatggcaa actcactagt atgcacttct acggctggaa gcagggtttg 2400
aagactggga tgtattattht aaggacgaga ccagcagcta atccaatcca gttcactcta 2460
aataaggaga agctaaaaga taaagaaaag gtatcaaaag aggaagaaga gaaggagagg 2520
aacacagcag ccattggtgtg ctctttggag aatagagatg aatgtctgat gtgtggatcc 2580
tgaggaaaga cttggaagag accagcatgt cttcagtagc caaactactt cttgagcata 2640
gataggtata gtgggtttgc ttgaggtggt aaggctttgc tggaccctgt tgcaggcaaa 2700
aggagtaatt gatttaaagt actgttaatg atgttaatga ttttttttta aactcatata 2760
ttgggatttt caccaaaata atgcttttga aaaaaagaaa aaaaaaacgg atatatttag 2820
aatcaaagta gaagttttag gaatgcaaaa taagtcatct tgcatacagg gagtgggtta 2880
gtaaggtttc atcacccatt tagcactgct tttctgaaga cttcagtttt gtttaaggaga 2940
tttagtttta ctgctttgac tgggtgggtct ctagaagcaa aactgagtga taactcatga 3000
gaagtactga taggaccttt atctggatat ggtcctatag gttattctga aataaagata 3060
aacatttcta agtg 3074

```

<210> 69

<211> 3469

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 201928.3

<400> 69

```

gtccccgggc ggggttggtc gcgcttcggt gtcagatctg aggcgaggct aggtgagccg 60
tgggaagaaa agaggagca gctagggcgc gggctcctct cctcccggag tttggaacgg 120

```

PA-0043 US

ctgaagttca	ccttccagcc	cctagcgccg	ttcgcgccgc	taggcctggc	ttctgaggcg	180
gttgcggtgc	tcggtcgccc	cctagggcgg	gcaggggtgc	agcaggggct	tcggggccacg	240
cttctcttgg	cgacaggatt	ttgctgtgaa	gtccgtccgg	gaaacggagg	aaaaaaagag	300
ttgcgggagg	ctgtcggcta	ataacggttc	ttgatacata	tttgccagac	ttcaagattt	360
cagaaaaggg	gtgaaagaga	agattgcaac	tttgagtcag	acctgtaggc	ctgatagact	420
gattaaacca	cagaaggtga	cctgctgaga	aaagtggtag	aaatactggg	aaaaacctgc	480
tcttctgcgt	taagtgggag	acaatgtcac	aagttaaaag	ctcttattcc	tatgatgccc	540
cctcggattt	catcaatttt	tcctccttgg	atgatgaagg	agatactcaa	aacatagatt	600
catggtttga	ggagaaggcc	aatttggaga	ataagttact	ggggaagaat	ggaactggag	660
ggctttttca	gggcaaaact	cctttgagaa	aggctaactc	tcagcaagct	attgtcacac	720
ctttgaaacc	agttgacaac	acttactaca	aagaggcaga	aaaagaaaat	cttgtggaac	780
aatccattcc	gtcaaagtct	tgttcttccc	tggagttga	ggcagccata	tcaagaaaaa	840
ctccagccca	gcctcagaga	agatctctta	ggctttctgc	tcagaaggat	ttggaacaga	900
aagaaaagca	tcatgtaaaa	atgaaagcca	agagatgtgc	cactcctgta	atcatcgatg	960
aaattctacc	ctctaagaaa	atgaaagttt	ctaacaacaa	aaagaagcca	gaggaagaag	1020
gcagtgtctc	tcaagatact	gctgaaaaga	atgcatcttc	cccagagaaa	gccaaagggta	1080
gacatactgt	gccttgtatg	ccacctgcaa	agcagaagtt	tctaaaaagt	actgaggagc	1140
aagagctgga	gaagagtatg	aaaatgcagc	aagagggtgt	ggagatgcgg	aaaaagaatg	1200
aagaatttcaa	gaaactttgt	ctggctggaa	tagggcaacc	tgtgaagaaa	tcagtggacc	1260
aggtcaccaa	atcagttgac	ttccacttcc	gcacagatga	gcgaatcaaa	caacatccta	1320
agaaccagga	ggaatataag	gaagtgaact	ttacatctga	actacgaaag	catccttcat	1380
ctcctgcccc	agtgactaag	ggatgtacca	ttgttaagcc	tttcaacctg	tcccaaggaa	1440
agaaaagaac	atttgatgaa	acagtttcta	catatgtgcc	ccttgcacag	caagtgaag	1500
acttccataa	acgaacccct	aacagatatc	atgtgaggag	caagaaggat	gatattaacc	1560
tgttaccctc	caaattcttc	gtgaccaaga	tttgacagaga	cccacagact	cctgtactgc	1620
aaaccaaaca	ccgtgcacgg	gctgtgacct	gcaaaagtac	agcagagctg	gaggctgagg	1680
agctcgagaa	attgcaacaa	tacaaattca	aagcacgtga	acttgatccc	agaatacttg	1740
aagtgggggc	catcttgccc	aagaaaccac	ctgtgaaacc	accacccgag	cctattggct	1800
ttgatttggg	aattgagaaa	agaatccagg	agcgagaatc	aaagaagaaa	acagaggatg	1860
aacactttga	atttcattcc	agaccttgcc	ctactaagat	tttggagat	gttgtgggtg	1920
ttctgaaaa	gaaggtactt	ccaatcaccg	tccccaagtc	accagccttt	gcattgaaga	1980
acagaattcg	aatgcccacc	aaagaagatg	aggaagagga	cgaaccggta	gtgataaaag	2040
ctcaacctgt	gccacattat	gggggtgcct	ttaagcccca	aatcccagag	gcaagaactg	2100
tggaaatatg	ccctttctcg	tttgattctc	gagacaaaaga	acgtcagtta	cagaaggaga	2160
agaaaataaa	agaactgcag	aaaggggagg	tgcccaagtt	caaggcactt	cccttgccctc	2220
attttgacac	cattaacctg	ccagagaaga	aggtaaagaa	tgtgaccag	attgaacctt	2280
tctgcttggg	gactgacaga	agaggtgctc	tgaaggcaca	gacttggaag	caccagctgg	2340
aagaagaact	gagacagcag	aaagaagcag	cttgtttcaa	ggctcgtcca	aacaccgtca	2400
tctctcagga	gccctttgtt	cccaagaaag	agaagaaatc	agttgctgag	ggcctttctg	2460
gttctctagt	tcaggaaacct	tttcagctgg	ctactgagaa	gagagccaaa	gagcggcagg	2520
agctggagaa	gagaatggct	gaggtagaag	cccagaaagc	ccagcagttg	gaggaggcca	2580
gactacagga	ggaagagcag	aaaaaagagg	agctggccag	gctacggaga	gaactggtgc	2640
ataaggcaaa	tccaatacgc	aagtaccagg	gtctggagat	aaagtcaagt	gaccagcctc	2700
tgactgtgcc	tgtatctccc	aaattctcca	ctcgattcca	ctgctaaact	cagctgtgag	2760
ctgcgatatac	cgcccggcaa	tgggacctgc	tcttaacctc	aaacctagga	ccgtcttgct	2820
ttgtcattgg	gcatggagag	aacctatttc	tccagacttt	tacctaccgg	tgcctgagaa	2880
agcatacttg	acaactgtgg	actccagttt	tgttgagaat	tgttttctta	cattactaag	2940
gctaataatg	agatgtaact	catgaatgtc	tcgattagac	tccatgtagt	tacttccctt	3000
aaaccatcag	ccggcctttt	atatgggtct	tcactctgac	tagaatttag	tctctgtgtc	3060
agcacagtgt	aatctctatt	gctattgccc	cttacgactc	tcacctctc	cccacttttt	3120
ttaaaaaattt	taaccagaaa	ataaagatag	ttaaataccta	agatagagat	taagtcatgg	3180
tttaaatgag	gaacaatcag	taaatcagat	tctgtcctct	tctctgcata	ccgtgaattt	3240
atagttaagg	atccctttgc	tgtgagggtg	gaaaacctca	ccaactgcac	cagtggaggaa	3300
gaagactgcg	tggattcatg	gggagcctca	cagcagccac	gcagcaggct	ctgggtgggg	3360
ctgccgttaa	ggcacgttct	ttccttactg	gtgcgtataa	caacagggaa	ccgtgcagtg	3420
tgcatttttaa	gacctggcct	ggaataaata	cgttttgtct	ttccctcaa		3469

<210> 70
 <211> 1503
 <212> DNA
 <213> Homo sapiens

PA-0043 US

<220>
 <221> misc_feature
 <223> Incyte ID No: 217973.1

<400> 70
 cgggcctacc gctgctgccg ctgtcgaaga gcggcagaga aagcttcagg agtaccttgc 60
 agccaagggg aaactgaaga gccaaaacac caagccttat ctaaaatcca agaataattg 120
 ccagaatcaa ccaccttcta aatctactat tagaccctaaa aatgatgtta ccaaccatgt 180
 tgttttgctt gtcaaacctt aaagggtccat cagcattaaa ctccagccca gaccacctaa 240
 tactgcaggg tcccagaagc cgaagttgga gccacaaaaa cttctgggca aaaggctgac 300
 ttcagaatgt gtttcttcta acccactact taagccttct agcaagagtt ttcaacagtg 360
 tgaagctgga tcgtccacaa caggagaact gtcaagaaaa cctgtggggg cacttaatat 420
 agagcaattg aaaactacaa agcagcagtt aacagatcaa ggcaaatggt aaatgtatag 480
 actttatgaa taatatccat gttgaaaacg aatctttgga taactttcta aaagaaacaa 540
 acaaagatga cttgctcgat atcttaacag aacctgagag gaagccagat cctagattat 600
 ataccagaag taagccaaag actgactctt ataatcaaac caagaacagt ttagttccta 660
 aacaagcctt gggcaaaagt tcagttaata gtgctgttct gaaagatagg gttaataaac 720
 aatttggttg agaaacacaa agcaggactt tcccagtaaa atcacagcaa ctctctagag 780
 gagcagatct tgcaagacca ggagtaaaac cctcaaggac ggttccctct cactttattc 840
 ggacccttag taaagttcag tcatcaaaag aaccagtagt caagaacatc aaagatatata 900
 aggttaatat gagtcaatat gaaagaccaa atgaaactaa gatacgggtc taccctgtta 960
 ctgaacagag agtgaagcac accaaaccca gaacataccc cagtttgctt cagggtgaat 1020
 ataacaacag acatccaaac atcaagcaag atcagaagtc cagccaagtt tgtataacct 1080
 agacatcatg tgtactgcaa aagtcaaaag ccgtaagcca gaggcctaatt ttgacagttg 1140
 gcagatttaa ttcagccatt ccaagcacc ctagcataag accaaatgga accagtggta 1200
 ataaacataa caataatggc tttcagcaaa aagcacagac tttggactcc aagttgaaaa 1260
 aggtctgttc ccagaacatc tttctgaaca agacagctcc caaaactcaa gctgatgtca 1320
 caaccgtaaa tgggacccaa acaaacccaa atattaaaaa gaaggcaaca gcagaggatc 1380
 gaaggaaaca actagaagaa tggcagaaat ctaagggaaa aacctataaa cggcctccta 1440
 tggaaactta acaaaaaaga aaagtaataa aggaaatgaa tatttcattc tggaagagca 1500
 ttg 1503

<210> 71
 <211> 2281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 221737.8

<400> 71
 gggatttgaa ccgcgctgac gaagtttggt gatccatctt ccgagtatcg ccgggatttc 60
 gaatcgcgat gatcatccc tctctagagg agctggactc cctcaagtac agtgacctgc 120
 agaacttagc caagagtctg ggtctccggg ccaacctgag ggcagacaag ttgttaaaag 180
 ccttgaaagg ctacattaaa catgaggcaa gaaaaggaaa tgagaatcag gatgaaagtc 240
 aaacttctgc atcctcttgt gatgagactg agatacagat cagcaaccag gaagaagctg 300
 agagacagcc acttggccat gtcacaaaaa caaggagaag gtgcaagact gtccgtgtgg 360
 acctgactc acagcagaat cattcagaga taaaaataag taatcccact gaattccaga 420
 atcatgaaaa gcaggaaagc caggatctca gagctactgc aaaagttcct tctccaccag 480
 acgagcacca agaagctgag aatgctgttt cctcaggtaa acgtggaata aatggtaaca 540
 gagattcaaa ggtaccttca gaaggaaaga aatctctcta cacagatgag tcatccaaac 600
 ctggaaaaaa taaaagaact gcaatcacta ctccaaactt taagaagctt catgaagctc 660
 attttaagga aatggagtcc attgatcaat atattgagag aaaaaagaaa cattttgaag 720
 aacacaattc catgaatgaa ctgaagcagc ccatcaataa gggaggggtc aggactccag 780
 tacctccaag aggaagactc tctgtggctt ctactcccat cagccaacga cgctcgcaag 840
 gccggtcttg tggccctgca agtcagagta ccttgggtct gaaggggtca ctcaagcgct 900
 ctgctacttc tgcagctaaa acgggtgtca ggttttcagc tgctactaaa gataatgagc 960
 ataagcgttc actgaccaag actcagacca gaaagtctgc acatgtgacc gtgtctgggg 1020
 gcaccccaaa aggcgaggct gtgcttggga cacacaaatt aaagaccatc acgggggaatt 1080
 ctgctgctgt tattacccca ttcaagttga caactgaggg aacgcagact ccagtctcca 1140
 ataagaaacc agtgtttgat cttaaagcaa gtttgcctcg tcccctcaac tatgaaccac 1200

PA-0043 US

```

acaagaggaaa gctaaaacca tggggggcaat cttaaagaaaa taattatcta aatcaacatg 1260
tcaacagaat taactttctac aagaaaactt acaaacaacc ccatctccag acaaaggag 1320
agcaacggaa gaaacgcgag caagaacgaa aggagaagaa agcaaagggt ttgggaatgc 1380
gaagggggcct ctttttggct gaagattaat aattttttta catcttgtaa atattcctgt 1440
attctcaact tttttccttt tgtaaatttt tttttttttg ctgtcatccc cacttttagtc 1500
acgagatctt tttctgctaa ctgttcatag tctgtgtagt gtccatgggt tcttcatgtg 1560
ctatgatctc tgaaaagacg ttatcacctt aaagctcaaa ttctttggga tgggtttttac 1620
ttaagtccat taacaattca ggtttctaac gagacccatc ctaaaattct gtttctagat 1680
ttttaatgtc aagttcccaa gttccccctg ctggttctaa tattaacaga actgcagtct 1740
tctgctagcc aatagcattt acctgatggc agctagtatt gcaagcttca ggagaatttg 1800
aacaataaca agaatagggt aagctgggat agaaaggcca cctcttcact ctctatagaa 1860
tatagtaacc tttatgaaac ggggccatat agtttgggta tgacatcaat attttaccta 1920
ggtgaaattg tttaggctta tgtaccttcg ttcaaatac ctcatgtaat tgccatctgt 1980
cactcactat attcacaaaa ataaaactct acaactcatt ctaacattgc ttacttaaaa 2040
gctacatagc cctatcgaaa tgcgaggatt aatgctttaa tgcttttaga gacagggtct 2100
cactgtgttg cccaggctgg tctcaaaact caccaaagt acttcttatt cattttatgg 2160
aaaagactag gctttgctta gtatcatgtc catgtttcct tcacctcagt ggagcttctg 2220
agttttatac tgctcaagat cgtcataaat aaaatttttt ctcatgtgca aaaaaaaaaa 2280
a
2281

```

<210> 72

<211> 1179

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232567.4

<400> 72

```

cgccgtctgc atggcactgc gctgggttgc ccgccttttag aggagaggct ctgcctgggtg 60
cccgacgtg ggcgcggagg aaagcagccc tcggagattt cgaaagatcg cgggtggccgc 120
ggcgctgctc cggctctggcg gattgcaaaa cgggcccgctc gggctggctg cgcctggagg 180
ccgcgcgggc tgggaactgc tggctccgtc aagcgaagaa cggccgctgc caggctcctgt 240
acaagaccga actgagcaag gaggagtgtc gcagcaccgg ccggctgagc acctcgtgga 300
ccgaggagga cgtgaatgac aacacactct tcaagtggat gattttcaac gggggcgccc 360
ccaactgcat cccctgtaaa aaaccccgct gcgtctgcgc cccggattgt tccaacatca 480
gccgaatgaa caagaagaac gaaacgtgtg agaactgtga ctgtggacct gggaaaaaat 420
cctggaaggg tccagtctgc gggctggatg ggaaaaacct cgcgaatgaa tgtgcactcc 540
taaaggcaag atgtaaagag cagccagaac tggaaagtcca gtaccaaggc agatgtaaaa 600
agacttgctg ggatgttttc tgtccaggca gctccacatg tgtgggtggc cagaccaata 660
atgcctactg tgtgacctgt aatcggattt gccagagacc tgcttctctc gagcaatata 720
tctgtgggaa tgatggagtc acctactcca gtgcctgcc cctgagaaag gctacctgcc 780
tgctgggcag atctattgga ttagcctatg agggaaagtg tatcaaagca aagtcctgtg 840
aagatatcca gtgactgggt gggaaaaaat gtttatggga tttcaagggt gggagaggcc 900
ggtgttccct ctgtgatgag ctgtgccctg acagtaagtc ggatgagcct gtctgtgcca 960
gtgacaatgc cacttatgcc agcgagtgtg ccagtaagga agctgcctgc tccctagggt 1020
tgctactgga agtaaagcac tccggatctt gcaactccat ttcggaagac accgaggaag 1080
aggaggaaga tgaagaccag gactacagct ttctatatc ttctattcta gagtggtaaa 1140
ctctctataa gtgttcagtg ttgacatagc ctttgtgca
1179

```

<210> 73

<211> 847

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 232567.6

<220>

<221> unsure

PA-0043 US

<222> 736-771, 828

<223> a, t, c, g, or other

<400> 73

```

aaatctgttg tcagattcta gtaattaatg gaattctttc ttttgtaaaa gatcccactt 60
gtgggaaata ataagataca tatttaactt gagaatattg taaaatcctg ttcttaaaaa 120
aatacccttt taatgcacta atgtagtatg taagaaactg caggggtttt gtgcgtgtgt 180
atgtgtgtgt gcatttgagt ttcagtttta ttatccagca tttttgcata atatctccat 240
taccceccatt agtaataggg tattactatt atgtttatat aaaataaatt atgtttatat 300
ttattgatag aggactagag aaaggggagaa aagggggata tggggaaatc agtttactca 360
tcacagatgt attatatcct agaagcaaag tcctgtgaag atatccagtg cactgggtggg 420
aaaaaatggt tatgggattt caagggtggg agaggccggt gttccctctg tgatgagctg 480
tgccctgaca gtaagtcgga tgagcctgtc tgtgccagtg acaatgccac ttatgccagc 540
gagtgtgcca tgaaggaagc tgcctgctcc tcaggtgtgc tactggaagt aaagcactcc 600
ggatcttgca actccatttc ggaagacacc gaggaagagg aggaagatga agaccaggac 660
tacagctttc ctatatcttc tattctagag tggtaaaactc tctataagtg ttcagtgttg 720
acatagcctt tgtgcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngaaaaatat 780
attgtccata ctgtaaataa gtgtatgctt atttattttg ggggcaanct atacattaaa 840
ggtcctt
847

```

<210> 74

<211> 5394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 233331.8

<220>

<221> unsure

<222> 4030-4067, 5360

<223> a, t, c, g, or other

<400> 74

```

cctttaacat cacaaatgtc agagtttagag aagccaaaga gcaaagtgtt gaggtcctaa 60
gcttgactgt gtcttagaga cagctgtggg ctctccacg ccctgggtcc agatgctgat 120
aagtgggaat ggatgctgtc tcttccacac tctgatatga atgtcatggg taacaactgt 180
gagattccag atcggtgtat ttattgatgt agcttttttc ctttttgtgc tctaaaactt 240
gccaatctgt tcttcattag actgtgagct cattaagagc aagggcacat ttttctccac 300
tctgtaaaat ctccatccat aatgcttagt acagaacagt atttttggta catactgagt 360
agctaccaa ggatgggtgt tataagtact taatattgtt gtgtgtttat ccaacagaga 420
aaatgtaaag ttagattgat ttaaaagtaa atgaatgaca gaaaacaggt tttggggatc 480
ttccctcttg tccatctcca aagagaagcc ttctgcaata ccaggtaca ttttggcaca 540
ttggaatcgc acatgctaaa gatttctaatt cctcattgtt attcttttagg gtgccaagga 600
ctcaccgcta cgtcgggctg tgaagacac cctttccaac ccacagtccc cacagccatc 660
accttacaac tccccaaac cacaacacaa agtcacacag agcttcttgc caccggctg 720
ggaaatgagg atagcgccaa acggccggcc cttcttcatt gatcataaca caaagactac 780
aacctgggaa gatccacgtt tgaaatttcc agtacatatg cgggtcaaaga catcttttaa 840
ccccaatgac cttgggcccc cttctcctg gctgggaaga aagaattcac ttggatggcc 900
gaacgtttta tattgatcat aatagcaaaa ttactcagtg ggaagacca agactgcaga 960
accagctat tactgggtccg gctgtccctt actccagaga atttaagcag aaatatgact 1020
acttcaggaa gaaattaaag aaacctgctg atatcccaa taggtttgaa atgaaacttc 1080
acagaaataa catatttgaa gattcctatc ggagaattat gtccgtgaaa agaccagatg 1140
tcctaaaagc tagactgtgg atttgagtttg aatcagagaa aggtcttgac tatgggggtg 1200
tgccagaga atgggtcttc ttactgtcca aagagatgtt caaccctac tacggcctct 1260
ttgagtactc tgccacggac aactacaccc ttcagatcaa ccctaattca ggcctctgta 1320
atgaggatca tttgtcctac ttcactttta ttggaagagt tgctgggtctg gccgtatttc 1380
atgggaagct cttagatggt ttcttcatta gaccatttta caagatgatg ttgggaaagc 1440
agataacctt gaatgacatg gaatctgtgg atagtgaata ttacaactct ttgaaatgga 1500
tcctggagaa tgaccctact gagctggacc tcatgttctg catagacgaa gaaaactttg 1560
gacagacata tcaagtggat ttgaagccca atgggtcaga aataatggtc acaaatgaaa 1620

```


PA-0043 US

acaaaagggg	atataatcgac	ttagtcatcc	agtggagatt	tgtgaacagg	gtccagaagc	1680
agatgaacgc	cttcttggag	ggattcacag	aactacttcc	tattgatttg	attaaaaatt	1740
ttgatgaaaa	tgagctggag	ttgctcatgt	gcggcctcgg	tgatgtggat	gtgaatgact	1800
ggagacagca	ttctattttac	aagaacggct	actgccccaa	ccaccccgtc	attcagtggt	1860
tctggaaggc	tgtgctactc	atggacgccc	aaaagcgtat	ccggttactg	cagtttgtca	1920
cagggacatc	gcgagtacct	atgaatggat	ttgccgaact	ttatggttcc	aatggtcctc	1980
agctgtttac	aatagagcaa	tggggcagtc	ctgagaaaact	gcccagagct	cacacatgct	2040
ttaatcgcc	tgacttacct	ccatatgaaa	cctttgaaga	tttacgagag	aaactttctca	2100
tggccgtgga	aaatgctcaa	ggatttgaag	gggtggatta	agcaccctgt	gcctcggggg	2160
tggttgttct	tcaagcaagt	tctgcttgca	cttttgcatt	tgcctaacag	actttttgcag	2220
aggcgatggc	agagagcagc	tcagagcatg	gtccctggag	ccgagccttc	accacgcact	2280
cgtccaagtt	cggatgcggg	aacctgggtcc	cagcttgagt	tcctgccttt	cccaccacaa	2340
attatcaact	ggttgatgtg	tacactaatt	acatttcagg	aggacttaat	gctattttatg	2400
ttgtgcctct	gcaggcaaag	cccttaataa	atattttaca	tcctttctaa	tgacaatgaa	2460
tggaattaat	cactcaacag	gtatagtatt	acgactcatg	tttacttttt	aaaatgattt	2520
agaccgattt	tcagatttta	tttcgttatg	attaaagatg	tctcatgtac	ttggaaaagt	2580
gagcattttt	tttttttggg	ttttccactt	tcataccagg	cttaatgtca	atgacatttt	2640
tatttttgaa	gtactctgac	acctccaccc	tctactttat	tagaattgga	aggcaaattt	2700
ttgtccaaaa	acctacagac	aagtactttg	agagaatttc	caatataata	ttagacataa	2760
tgataatttt	ttccatactc	agaatgaaaa	actggatatt	acgtttttgt	tttgggggtt	2820
ttttgtacaa	atttagctaa	tagctacagg	ctgagagaat	tgtaacatag	catgacaaat	2880
tttgtgttga	cttgaaagga	atcacacccat	tattccttag	aagtaattac	atgtgttcta	2940
acacatttga	gacaggggtg	gactcccatt	tctcatccga	gaaattactt	aacctttcct	3000
ggcgctgtac	agtcactctt	tattctattt	cctctttgct	gtttgtagta	gagacatttt	3060
gaatgaaact	tggcactgct	tgattcaaaa	ctgtggaaac	cagatctgtt	tagtctcctg	3120
tttgtatgcg	tttgctaattg	gtagctaaat	aaccagtttt	tgttgtaaat	gcaccaattc	3180
tgaaggcact	ttatgtacta	catggagggt	atatctgggt	ttgtttttat	ttttttatca	3240
tgaacattaa	atgtgatgat	gatttctttt	ccctgcacac	atctttccgg	tgcaatatct	3300
atcaattgtg	aatctggctg	ctggtgtata	aaaacctgga	tgtaaagctg	agcctacaga	3360
cctgtcctca	ccaactgttt	tgtgatttct	actcaactac	aaagatttat	ttaatgtact	3420
cttaatctaa	ctgagttttg	ttaccaatga	cctgttgcat	gcttcaatac	cgtgtactgc	3480
ctgagttgtg	cctcttgtgt	gctagattaa	aagttagaca	gagacttgac	ttgatcctct	3540
gagctcaagc	tattgagctg	gtagtggcag	aggactgagg	gtacctgcac	agtttgattc	3600
ttttccacgt	gtaagtctcc	attgcagaat	tgtcgtgctt	tgagaaaaca	cctgaggcag	3660
tgtgggagtt	gaacgacct	gctgtccttt	ttaacctgtg	ttgtcctaga	ccctgtcggg	3720
gcagtcaggg	gacactagag	atttgatctc	atgcgagtca	tcaataggac	aaaaaagttg	3780
tggtttgggg	aggtctgttt	gttacataaa	aaggaccttt	cgggtgaaga	aattgccgtt	3840
tttaccctgc	cctggctggc	atgtgagaag	ccatgggaag	ttgtggttgt	aaatgagttg	3900
tctaaagggg	tgagagggcc	tgaggtttct	aaaagaaggt	agatttctac	agagctgagt	3960
gttggttctc	ttttcttatt	ggttgaaaat	tacctggtag	tgatcagaaa	acttagatgc	4020
tatgtaactn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnttc	ccgctcatga	4080
gttttgacta	ttggtgagat	gttttccgct	acagttaaca	tgacaaatgt	ctcagtggca	4140
aaaatccctt	ttttgtaagc	ccccatagtc	tagaggcagt	tttcttttta	agaatcatgc	4200
cagagcctga	gtcgagcagt	atgctttctt	ggtttttgag	agtaattgtg	taattgtaga	4260
gggagaaatc	caattctaac	ctaagaactg	ggattctctt	gtcatcttgt	aaaccgtata	4320
ttgaaaaaaa	cagaatgtca	ctaaatgcac	attaagtcaa	gtatttgaaa	gtataaaaga	4380
aaaatcattc	tgacaatttc	taagccagaa	gcaaacaaga	attactgaaa	tctaccccat	4440
gaatacttgg	aaggcagtaa	ttgtgagtga	cacctcagtt	catcaacccc	ttaataatat	4500
cagcttaatt	ttaatgacaa	ctaaatatgc	tgaagtgagg	atttagtatt	ttttaaaaaa	4560
gcaaaacaag	gttcagtagt	cctcagcaat	tctccaagtt	tctctctttg	cctaaaatgg	4620
tcatagatct	tgatttctct	gaatcgatg	gaccacaccc	agtcactctc	acagcataat	4680
tgcaggtggc	agtaaagaga	gtgtgctggg	taaggagcag	ttgctgggtc	attccttggg	4740
ccccgacctg	cccggggagt	agccctgggg	gagagagggc	agtgttgctt	atcccagagg	4800
tcccagcagt	cacactgctc	tgcaggccgg	gctctcttta	tagccagaga	aatcacctta	4860
atgcagtctc	tttagttgtc	tgtgaaagt	gtagtatta	tgggcccact	acatgaggct	4920
gagaagtacg	tgcgggagct	cacacactgc	ctgttgccgt	tctcttaaca	tcagttatca	4980
cagctgcctg	tgggtcccgg	gtatttccat	tcctgcccct	tgttgggccc	aggaaggatg	5040
tggaagagc	acctggcggg	atgaagggtc	aacagcctgt	gcctctccac	tgctggccct	5100
ggagccggca	gcagtgaggc	attcattgtc	tgtgttgccg	tgtattccca	gcttcagtgc	5160
tcttttccct	tttgcttgaa	atgtttatgc	ttctctgcag	ccagtcctct	aacaaatctc	5220
agaacaaaag	gtaagacact	tggtttttgt	ttccaggacc	cttcagaagg	tgacatcaga	5280
tattccctaa	attcagacaa	tgaggggatac	agagcgactt	ggcatgtatt	atttctccca	5340

PA-0043 US

tgtaaggaca aaggacagn ttattattgt tatttctgag acagatcttg ctct 5394

<210> 75
<211> 465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 235191.3

<220>
<221> unsure
<222> 62-105, 107, 111
<223> a, t, c, g, or other

<400> 75
agagatggca taaccccatc tataatctcat atatatacac atatatgtgt gtgtgtatac 60
annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnanatt naggggaaag 120
ctcaccact gacctttgct atgcccaaaa gtgtactcca cattccaaca aatgtgtttt 180
ctccccagat gtctggcgat aaagggattt ctgccttccc tgaatcagac aaccttttca 240
aatgggtagg gaccatccat ggagcagctg gaacagtata tgaagacctg aggtataagc 300
tctcgctaga gttccccagt ggctaccctt acaatgcgcc cacagtgaag ttcctcacgc 360
cctgctatca cccaacgtg gacaccagg gtaacatatg cctggacatc ctgaaggaaa 420
aagtggctctg ccctgtatga tgcaggacc attctgctct ccac 465

<210> 76
<211> 833
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 235191.4

<400> 76
gccccagag gggtacaatt caaacgcggg cgggcggggc cgcagtcctg cagttgcagt 60
cgtgttctcc gagttcctgt ctctctgcc aagccgccc gatggcttc caaaaccgcg 120
accagccgc cactagcgtc gccgccgcc gtaaaggagc tgagccgagc gggggcgccg 180
ccgggggtcc ggtgggcaaa aggctacagc aggagctgat gacctcatg atgtctggcg 240
ataaagggat ttctgccttc cctgaatcag acaacctttt caaatgggta gggaccatcc 300
atggagcagc tggaacagta tatgaagacc tgaggtataa gctctcgcta gagttcccca 360
gtggctaccc ttacaatgcg cccacagtga agttcctcac gccctgctat caccccaacg 420
tggaacacca gggtaacata tgccctggaca tctgaagga aaagtggctc gccctgtatg 480
atgtcaggac cattctgctc tccatccaga gccttctagg agaaccaca attgatagtc 540
ccttgaacac acatgctgcc gagctctgga aaaacccac agcttttaag aagtacctgc 600
aagaaacctc ctcaaagcag gtcaccagcc aggagccctg acccaggctg cccagcctgt 660
ccttgtgtcg tctttttaat ttttccttag atggctctgt ctttttgtga tttctgtata 720
ggactcttta tcttgagctg tggatatttt gttttgtttt tgtcttttaa attaagcctc 780
ggttgagccc ttgtatatta aataaatgca tttttgtcct tttttagaca aaa 833

<210> 77
<211> 1841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 235997.2

<400> 77
cgctgggtgat tgaattagaa gaactgaacc tgccagactc ctgtttcctc aaggccaatg 60

PA-0043 US

atttgactca	cagtcttttc	tcatacctaa	aagaaatttg	tcctaagtgg	gtaaaactta	120
ggaagaacca	cagtgagaag	aaatcgggcc	tgatgctgat	catctgcagc	tcggccatcc	180
gagccctgga	gctcattagg	tcgatgacag	cattcagagg	agacggcaaa	gttataaaat	240
tatttgcaaa	gcacataaag	gtccaggcgc	aggtaaagtt	gctggagaag	cgtgtgggtgc	300
acctgggtgt	aggaactccg	gggagaatta	aagaacttgt	taaacaaggt	ggccttaatt	360
tgagcccctt	aaaattttctg	gtttttgact	ggaactggag	agatcagaag	ttgaggagaa	420
tgatggacat	tcccagagata	agaaaggagg	tattcgaact	tctggaaatg	ggagtgtctca	480
gtctgtgcaa	gtcagaatcc	ttgaaactgg	gcctttttcta	agtctgtgtc	ctaatagaaga	540
ttccagtttt	cacagtagaa	gttgcatctt	atttaattgac	tctgatacat	tgcaagcact	600
cagtaaatat	cagcaaatag	tttatgttaa	ttgtgtcaac	agatggatca	ctggaatgtg	660
gggatttctga	aacagaaatg	aaactgtcct	tttgacaact	ctcttatata	ataaagtatc	720
accggcttgt	gtatgaactc	cggggagaaat	taaagaactt	gttaaacaag	gtggccttaa	780
tttgagcccc	ttaaaatttc	tggtttttga	ctggaactgg	agagatcaga	agttgaggag	840
aatgatggac	attcccagaga	taagaaagga	ggtattcgaa	cttctggaaa	tgggagtgtc	900
cagtctgtgc	aagtcagaat	ccttgaaact	gggccttttc	ttatctcggg	aatgtccatc	960
attctcctca	acttctgatc	tctccagttc	cagtcacaaa	ccagaaattt	taaggggctc	1020
aaattaaggc	caccttgttt	aacaagttct	ttaattctcc	ccggagtctc	tacaccagg	1080
tgccaccacac	gcttctccag	caactttacc	tgcccttgga	cctttatgtg	ctttgcaaat	1140
aattttataa	ctttgccgtc	tctctgaat	gctgtcatcg	acctaataag	ctccagggtc	1200
cggacggccg	agctgcagat	gatcagcatc	aggaccgatt	tcttctcact	gtgggttctt	1260
ctaagtttta	cccacttagg	acaaatttct	tttaggtatg	aggaaagact	gtgagtcaaa	1320
tcattggcct	tgaggaaaca	ggagtctggc	aggttcagtt	cttctaattc	aatcaccaag	1380
cgtctgtctgc	tataatagtc	cttcacacgc	ttctgtaggt	cttcaggtaa	ccctgggttt	1440
ggttctgatt	ttgcaagaac	atcagtaatt	ttcttctttc	ttcttttctc	ggtcttggtg	1500
gtattctctt	ttctttcctt	tggttgatc	aaaaaacatt	cttttaggctg	tttggttttc	1560
tctgaaggta	caggaactgg	aactgtctcc	tgctgcacat	cttctgtgtc	tccttctcct	1620
tcaccatctg	atgcttctgg	gctgtgtcct	gctcccagtc	ggctgggtct	cccaccactc	1680
gtctccgaga	tgcgtctgca	tttcagctca	ggtctcgacg	tgggcagaa	atcacgggta	1740
ggcgaccagc	tgccggaat	cacgttgtct	caaagccagg	cggccggcgt	agctacacgc	1800
ggagctcccg	ctagacactg	tcgccttcgc	cccgcggcga	t		1841

<210> 78

<211> 1905

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 242114.66

<400> 78

tatttcaagg	cgcgcgcctc	gtgggtggact	caccgctagc	ccgcagcgc	cgggcttctc	60
ggtaattctt	cacctctttt	ctcagctccc	tgcagcatgg	gtgctggggc	ctccttggctg	120
ctcgccgccc	tctgtctgct	tctctccggc	gacggcgccg	tgcgctgcga	cacacctgcc	180
aactgcacct	atcttgacct	gctgggcacc	tggtctcttc	agggtgggctc	cagcgggttc	240
cagcgcgatg	tcaactgctc	ggttatggga	ccacaagaaa	aaaaagtagt	ggtgtacctt	300
cagaagctgg	atacagcata	tgatgacctt	ggcaattctg	gccatttcac	catcatattac	360
aaccaaggct	ttgagattgt	gttgaatgac	tacaagtggg	ttgccttttt	taagtataaa	420
gaagagggca	gcaaggtgac	cacttactgc	aacgagacaa	tgactgggtg	ggtgcatgat	480
gtgttggggc	ggaactgggc	ttgtttcacc	ggaaagaagg	tgggaactgc	ctctgagaat	540
gtgtatgtca	acacagcaca	ccttaagaat	tctcaggaaa	agtattctaa	taggctctac	600
aagtatgata	acaactttgt	gaaagctatc	aatgccattc	agaagtcttg	gactgcaact	660
acatacatgg	aatatgagac	tcttaccctg	ggagatatga	ttagggagaag	tggtggccac	720
agtcgaaaaa	tcccaaggcc	caaacctgca	ccactgactg	ctgaaataca	gcaaaagatt	780
ttgcattttg	caacatcttg	ggaactggga	aatgttcatg	gtatcaattt	tgtcagtcct	840
gttcgaaaacc	aagcatcctg	tggcagctgc	tactcatttg	cttctatggg	tatgctagaa	900
gcgagaatcc	gtataactaac	caacaattct	cagaccccaa	tcctaagccc	tcaggagggtt	960
gtgtcttgta	gccagtatgc	tcaaggctgt	gaaggcggct	tcccatacct	tattgcagga	1020
aagtacgccc	aagattttgg	gctgggtggaa	gaagcttgct	tcccctacac	aggcactgat	1080
tctocatgca	aaatgaagga	agactgcttt	cgttattact	cctctgagta	ccactatgta	1140
ggagggtttct	atggaggctg	caatgaagcc	ctgatgaagc	ttgagttggg	ccatcatggg	1200
cccattggcag	ttgcttttga	agtatatgat	gacttctctc	actacaaaaa	ggggatctac	1260

PA-0043 US

```
caccacactg gtctaagaga ccctttcaac ccccttgagc tgactaatca tgctgttctg 1320
cttgtgggct atggcactga ctcagcctct gggatggatt actggattgt taaaaacagc 1380
tggggcaccg gctgggggtga gaatggctac ttccggatcc gcagaggaac tgatgagtgt 1440
gcaattgaga gcatagcagt ggcagccaca ccaattccta aattgtaggg tatgccttcc 1500
agtatttcat aatgatctgc atcagttgta aaggggaatt ggtatattca cagactgtag 1560
acttttcagca gcaatctcag aagcttacaa atagatttcc atgaagatat ttgtcttcag 1620
aattaaaact gcccttaatt ttaatatacc tttcaatcgg ccaactggcca tttttttcta 1680
agtattcaat taagtgggaa ttttctggaa gatggtcagc tatgaagtaa tagagtttgc 1740
ttaatcattt gtaattcaaa catgctatat tttttaaaat caatgtgaaa acatagactt 1800
atttttaaat tgtaccaatc acaagaaaat aatggcaata attatcaaaa cttttaaaat 1860
agatgctcat attttttaaaa taaagtttta aaaataactg caaaa 1905
```

<210> 79

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 245452.1

<400> 79

```
attttgtttt ccaccatgcc tgaaccagtc aaatctgctc cagtcacctaa aaaaggctcc 60
aagaaggcca ttaacaaggc tcagaagaag gatggaaaga agcgcaaacg cagccgcaag 120
gagagctact ctgtgtatgt gtacaagggt ctgaagcagg tccaccccca caccggcatc 180
tcttccaagg ctatgggaat catgaactcc ttctgcaacg acatctttga gcgtatcgcc 240
ggagaagcgt cagcctggc gcattacaac aagcgctcga ccatcacttc gagggagatc 300
cagacggcgc tgcgcctact gctaccggg gaattggcca agcacgccgt gtccgagggc 360
accaaggccg tcaccaagta taccagctcc aagtgagcct ctgcgtgcag taacagttcc 420
gccgtgacct acaccccaaa ggctcttttc agagccgtcc acgtttctca agaaagagcc 480
agttcactgt taagtttgtc tcccattagg taccctttgg gactcgcttc gtacatatata 540
atgtacttgt atatgtgggt ttttttttgt tttttgttgt tgtttttgag 590
```

<210> 80

<211> 3376

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 319885.11

<400> 80

```
attggcccggt ttgaaaatgc gcccaggcgg gagctcacct gggctcttag cgtcgccgcc 60
ggcttctcgag agcacccgcg cttagccggc aagttctagt tcttgctgcc ggtcctaacc 120
tcccgcagtc ttccgcagcc agccgtcccc catgcygctt tgggcggcgt ggagcctgct 180
gccatgaagt cagcgagagc taagacaccc cggaaacctt ccgtagaaaa aggggtcccaa 240
acgaacctta aagaccaggt tgggggtatac tgtaggggtgc gccactggg ctttcttgat 300
caagagtgtt gcatagaagt gatcaataat acaactgttc agcttcatac tcttgagggc 360
tacagactca accgaaatgg agactataag gagactcagt attcatttaa acaagtattt 420
ggcactcaca ccaccagaa ggaactcttt gatgttgtgg ctaatccctt ggtcaatgac 480
ctcattcatg gcaaaaatgg tcttcttttt acatatggtg tgacgggaag tggaaaaact 540
cacacaatga ctggttctcc aggggaagga gggctgcttc ctctgttgtt ggacatgatc 600
tttaacagta tagggtcatt tcaagctaaa cgatatgttt tcaaactctaa tgataggaat 660
agtatggata tacagtgtga gggtgatgcc ttattagaac gtcagaaaag agaagctatg 720
cccaatccaa agacttcttc tagcaaacga caagtagatc cagagtttgc agatatgata 780
actgtacaag aattctgcaa agcagaagag gttgatgaag atagtgtcta tgggtgtattt 840
gtctcttata ttgaaatata taataattac atatatgatc tattggaaga ggtgccgttt 900
gatcccataa aacccaaacc tccacaatct aaattgcttc gtgaagatta agaaccataa 960
catgtatgtt gcaggatgta cagaagtgtg agtgaatct actgaggagg cttttgaagt 1020
tttctggaga ggccagaaaa agagacgtat tgctaatacc catttgaatc gtgagtcag 1080
ccgttcccat agcgtgttca acattaaatt agttcaggct cccttggatg cagatggaga 1140
```

PA-0043 US

caatgtctta	caggaaaaag	aacaaatcac	tataagtcag	ttgtccttgg	tagatcttgc	1200
tggaagtga	agaactaacc	ggaccagagc	agaagggaac	agattacgtg	aagctggtaa	1260
tattaatcag	tcactaatga	cgctaagaac	atgtatggat	gtcctaagag	agaaccaa	1320
gtatggaact	aacaagatgg	ttccatatcg	agattcaaag	ttaacccatc	tgttcaagaa	1380
ctactttgat	ggggaaggaa	aagtgcggat	gatcgtgtgt	gtgaacccca	aggctgaaga	1440
ttatgaagaa	aacttgcaag	tcatgagatt	tgcggaagtg	actcaagaag	ttgaagtagc	1500
aagacctgta	gacaaggcaa	tatgtggttt	aacgcctggg	aggagataca	gaaaccagcc	1560
tcgagggtcca	gttggaatg	aaccattggg	tactgacgtg	gttttgcaga	gttttccacc	1620
tttgccgtca	tgcgaaattt	tggatatcaa	cgatgagcag	acacttccaa	ggctgattga	1680
agccttagag	aaacgacata	acttacgaca	aatgatgatt	gatgagttaa	acaaacaatc	1740
taatgctttt	aaagctttgt	tacaagaatt	tgacaatgct	gttttaagta	aagaaaacca	1800
catgcaaggg	aaactaaatg	aaaaggagaa	gatgatctca	ggacagaaat	tggaaataga	1860
acgactggaa	aagaaaaaca	aaactttaga	atataagatt	gagatttttag	agaaaaaac	1920
tactatctat	gaggaagata	aacgcaattt	gcaacaggaa	cttgaaactc	agaaccagaa	1980
acttcagcga	cagttttctg	acaaacgcag	attagaagcc	aggttgcaag	gcatggtgac	2040
agaaacgaca	atgaagtggg	agaaagaatg	tgagcgtaga	gtggcagcca	aacagctgga	2100
gatgcagaat	aaactctggg	ttaaagatga	aaagctgaaa	caactgaagg	ctattgtttac	2160
cgaacctaaa	actgagaagc	cagagagacc	ctctcgggag	cgagatcgag	aaaaagttac	2220
tcaaagatct	gtttctccat	cactgtgccc	tttactcttt	caacctgatc	agaacgcacc	2280
accaattcgt	ctccgacaca	gacgatcacg	ctctgcagga	gacagatggg	tagatcataa	2340
gcccgcctct	aacatgcaaa	ctgaaacagc	catgcagcca	catgtccctc	atgccatcac	2400
agtatctgtt	gcaaatgaaa	aggcactagc	taagtgtgag	aagtacatgc	tgaccacca	2460
ggaactagcc	tccgatgggg	agattgaaac	taaactaatt	aaggggtgata	tttataaaac	2520
aaggggtggt	ggacaatctg	ttcagttttac	tgatattgag	acttttaaagc	aagaatcacc	2580
aaatggtagt	cgaaaacgaa	gatcttccac	agtagcacct	gcccaccag	atgggtgcaga	2640
gtctgaatgg	accgatgtag	aaacaagggtg	ttctgtggct	gtggagatga	gagcaggatc	2700
ccagctggga	cctggatatc	agcatcacgc	acaacccaag	cgcaaaaagc	catgaactga	2760
cagtcaccgt	actgaaagaa	cattttcatt	tgtgtggatg	atttctcga	agccatgcc	2820
gaagcagtc	tccaggtcat	cttgtagaac	tcagctttg	ttgaaaatca	cggacctcag	2880
ctacatcata	cactgaccca	gagcaaagct	ttccctatgg	ttccaaagac	aactagtatt	2940
caacaaacct	tgtatagtgt	atgttttgcc	atattttaata	ttaatagcag	aggaagactc	3000
cttttttcat	cactgtatga	attttttata	atgttttttt	aaaatatatt	tcatgtatac	3060
ttataaacta	attcacacaa	gtgtttgtct	tagatgatta	aggaagacta	tatctagatc	3120
atgtctgatt	ttttattgtg	acttctccag	ccctgggtctg	aatttcttaa	ggttttataa	3180
acaaatgctg	ctatttatta	gctgcaagaa	tgcacttttag	aactatttga	caattcagac	3240
tttcaaaaata	aagatgtaaa	tgactggcca	ataataacca	ttttaggaag	gtgttttgaa	3300
ttctgtatgt	atatattcac	tttctgacat	ttagatatgc	caaaaagaatt	aaaatcaaaa	3360
gcactaagaa	ataaaa					3376

<210> 81

<211> 2881

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331033.1

<400> 81

tgaatttcgt	ggaggctcgg	gttgtgaggg	ttcctgcttc	ggagtcggcg	gtggctcgtcc	60
agaccgagtg	ttctttactt	tttgtttggt	tgagggtttca	cgctagaagg	tggctcagga	120
tgtcttcac	acattttgcc	agtcgacaca	ggaaggatat	aagtactgaa	atgattagaa	180
ctaaaattgc	tcataggaaa	tactgtctc	agaaagaaaa	tagacataag	gaatacgaac	240
gaaatagaca	ctttggtttg	aaagatgtaa	acattccaac	cttggaagg	agaattcttg	300
ttgaattaga	tgagacatct	caagggttg	ttccagaaaa	gaccaatgtt	aagccaagg	360
caatgaaaac	tattctaggt	gatcaacgaa	aacagatgct	ccaaaaatac	aaagaagaaa	420
agcaacttca	aaaattgaaa	gagcagagag	agaaagctaa	acgaggaata	tttaaagtgg	480
gtcgttatag	acctgatatg	ccttgttttc	ttttatcaaa	ccagaatgct	gtgaaagctg	540
agccaaaaaa	ggctattcca	tcttctgtac	ggattacaag	gtcaaaggcc	aaagaccaa	600
tggagcagac	taagattgat	aacgagagtg	atgttcgagc	aatccgacct	ggtccaagac	660
aaacttctga	aaagaaagtg	tcagacaaa	agaaaaaagt	tgtgcagcct	gtaatgccca	720
cgtcgttgag	aatgactcga	tcagctactc	aagcagcaaa	gcaggttccc	agaacagtct	780

PA-0043 US

catctaccac	agcaagaaag	ccagtcacaa	gagctgctaa	tgaaaacgaa	ccagaaggaa	840
aggtgccaa	taaaggaaga	cctgccaaaa	atgtagaaac	aaaacccgac	aagggtat	900
cttgtaaagt	cgatagtga	gaaaatactt	tgaattcaca	aactaatgca	acaagtggaa	960
tgaatccaga	tggagtctta	tcaaaaatgg	aaaacttacc	tgagataaat	actgcaaaaa	1020
taaaagggaa	gaattccttt	gcacctaagg	attttatgtt	tcagccactg	gatgggtctga	1080
agacctatca	agtaacacct	atgactccca	gaagtgccaa	tgcttttttg	acaccaggt	1140
acacctggac	tccttttaaaa	acagaagttg	atgagtctca	agcaacaaaa	gaaatttttg	1200
cacaaaaatg	taaaactttac	tctaccaaga	caatacagca	agattcaaat	aaattgccat	1260
gtcctttggg	tcctctaact	gtttggcatg	aagaacatgt	tttaaataaa	aatgaagcta	1320
ctactaaaaa	tttaaattggc	cttccaataa	aagaagtccc	atcacttgaa	agaaatgaag	1380
gtcgaattgc	tcagcccac	catgtgtgc	catatttcag	aaatatcttc	cagtcagaaa	1440
ctgagaaatt	aacttcacat	tgcttcgagt	gggacaggaa	acttgaattg	gacattccag	1500
atgatgctaa	agatcttatt	cgcacagcag	ttggtcaaac	aagactcctt	atgaaggaaa	1560
ggttttaaca	gtttgaagga	ctgggtgatg	attgtgaata	taaacgaggt	ataaaggaga	1620
ctacctgtac	agatctggat	ggattttggg	atatggttag	ttttcagata	gaagatgtaa	1680
tccacaaatt	caacaatctg	atcaaacttg	aggaatctgg	gtggcaagtc	aataataata	1740
tgaatcataa	tatgaacaaa	aatgtcttta	ggaaaaaagt	tgtctcaggt	atagcaagta	1800
aaccaaaaca	ggatgatgct	ggaagaattg	cagcgagaaa	tcgcctagct	gccataaaaa	1860
atgcaattgag	agagagaatt	aggcaggaag	aatgtgctga	aacagcagtt	tctgtgatac	1920
caaaggaagt	tgataaaaata	gtgttcgatg	ctggattttt	cagagttgaa	agtccctgta	1980
aattattctc	aggactttct	gtctcttctg	aaggcccttc	tcaaagactt	ggaacaccta	2040
agtctgtcaa	caaagctgta	tctcagagta	gaaatgagat	gggcattcca	caacaaacta	2100
catcaccaga	aatgcccggg	cctcagaata	cgaaaagtga	acatgtgaag	aagactttgt	2160
ttttgagtat	tcctgaaagc	aggagcagca	tagaagatgc	tcagtgtcct	ggattaccag	2220
atttaattga	agaaaatcat	gttgtaaata	agacagactt	gaagggtggat	tgtttatcca	2280
gtgagagaat	gagtttgcct	cttcttgctg	gtggagtagc	agatgatatt	aataactaaca	2340
aaaaagaagg	aatttcagat	gttggtggaag	gaatggaact	gaattcttca	attacatcac	2400
aggatgtttt	gatgagtagc	cctgaaaaaa	atacagcttc	acaaaatagc	atcttagaag	2460
aaggggaaac	taaaatttct	cagtcagaac	tatttgataa	taaaagtctc	actactgaat	2520
gccaccttct	tgattcacca	ggtctaaact	gcagttaatcc	atttactcag	ctggagagga	2580
gacatcaaga	acatgccaga	cacatttctt	ttggtggtaa	cctgattact	ttttcacctc	2640
tacaaccagg	agaattttga	atttaaaaat	aaatccaaac	attttccttc	atattatcaa	2700
tgcttatata	ttccttagac	tattgaaatt	ttggagaaaa	tgtatttgtg	ttcacttcta	2760
tagcatataa	tgttttaata	ttctgtgttc	atcaaagtgt	atttttagata	tactctttct	2820
caaggggaagt	ggggatattt	tgtacatttt	caacacagaa	taaaaaatgt	actgtgcctt	2880
g						2881

<210> 82

<211> 2519

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 335532.1

<400> 82

ttggcggggc	gaagcgcca	caaccggcg	atcgaaaaga	ttcttaggaa	cgccgtacca	60
gccgcgtctc	tcaggacagc	aggccctgt	ccttctgtcg	ggcgccgctc	agccgtgcc	120
tcgcgccctc	aggttctttt	tctaattcca	aataaacttg	caagaggact	atgaaagatt	180
atgatgaact	tctcaaatat	tatgaattac	atgaaactat	tgggacaggt	ggctttgcaa	240
aggtcaaact	tgcttgcct	atccttactg	gagagatggg	agctataaaa	atcatggata	300
aaaacacact	agggagtgt	ttgccccgga	tcaaaacgga	gattgaggcc	ttgaagaacc	360
tgagacatca	gcataatgt	caactctacc	atgtgctaga	gacagccaac	aaaatattca	420
tggttcttga	gtactgcct	ggaggagagc	tgtttgacta	tataatttcc	caggatcgcc	480
tgtcagaaga	ggagaccgg	gttgtcttc	gtcagatagt	atctgctgtt	gcttatgtgc	540
acagccagg	ctatgctcac	agggacctca	agccagaaaa	tttgctgttt	gatgaatatc	600
ataaattaaa	gctgattgac	tttggtctct	gtgcaaaacc	caagggtaac	aaggattacc	660
atctacagac	atgctgtggg	agtctggctt	atgcagcacc	tgagttaata	caaggcaaat	720
catatcttgg	atcagaggca	gatgtttgga	gcatgggcat	actgttata	gttcttatgt	780
gtggatttct	accatttgat	gactgataat	gtaatggctt	tatacaagaa	gattatgacg	840
aggaaaatat	gatgttccca	agtggctctc	tcccagtagc	attctgcttc	ttcaacaaat	900

PA-0043 US

```

gctgcaggtg gacccaaaga aacggatttc tatgaaaaat ctattgaacc atccctggat 960
catgcaagat tacaactatc ctggtgagtg gcaagcaag aatcctttta ttcacctcga 1020
tgatgattgc gtaacagaac tttctgtaca tcacagaaac aacaggcaaa caatggagga 1080
tttaatttca ctgtggcagt atgatcacct cagggtacc tatcttctgc ttctagccaa 1140
gaaggctcgg ggaaaaccag ttctgttaag gctttcttct ttctcctgtg gacaagccag 1200
tgctacccca ttcacagaca tcaagtcaaa taattggagt ctggaagatg tgaccgcaag 1260
tgataaaaaat tatgtggcgg ggattaatag actatgattg gtcgtgaaga tgatttattc 1320
aacagggtgct gactaactcc ccgaacatca cagtttacca agtactggac agaatacaat 1380
ggggtggaat ctaaatacatt aactccagcc ttatgcagaa cacctgcaaa taaattaaag 1440
aacaagaaga atgtatatatc tcctaagtct gctgtaaaga atgaagagta ctttatgttt 1500
cctgagccaa agactccagt taataagaac cagcataaga gagaaatact cactacgcca 1560
aatcgtttaca ctacaccctc aaaagctaga aaccagtgc tgaaagaaac tccaattaaa 1620
ataccagtaa attcaacagg aacagacaag ttaatgacag gtgtcattag ccctgagagg 1680
cgggtccgct cagtgggaatt ggatctcaac caagcacata tggaggagac tccaaaaaga 1740
gaaggagacc aaagtgtttg ggagccttga aaggggggtg gataagggtta tcaactgtct 1800
caccaggagc aaaaggaagg gttctgccag agacggggcc agaagactaa agcttacta 1860
taatgtgact acaactagat tagtgaatcc agatcaactg ttggaatgaa aatgaatgtc 1920
tattcttcca aagtaaggca tcttgacttt gtacaaaagg gttatacact gacgtgtcca 1980
aacacagtca ggattttggg taaagtgaca atgcaatttt gaattagcaa gtgtgaccag 2040
cttcaaaaac ccgatgtggc tgggtatcag gtaggcagtc gggcttgaag ggcgtatgcc 2100
tgggtttaca aaagtattag tgggaagaca tcctatctag ctgcaaggct ataattgatg 2160
gattcttaca tcctgccgga tgagtgtggg gtgtgataca gcctacataa aggactgtta 2220
tgatcgcttt gatttttaaag ttcattggaa ctaccaactt gtttctaaag agctatccta 2280
aagaccata tctctttgtt tttaaacaaa agatattatt ttgtgtatga atctaaatca 2340
agcccatctg ttcatatgtt tactgtcttt tttaatcatg tggttttgta tattaataat 2400
tgttgacttt gcttagattc acttccatat gtgaatgtaa gctcttaact atgtctcttt 2460
gtaatgtgta atttctttct gaaataaaaac catttgtgaa tataaaaaaa aaaaaaaaaa 2519

```

<210> 83

<211> 2146

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 347314.3

<220>

<221> unsure

<222> 107-160

<223> a, t, c, g, or other

<400> 83

```

agctcttggg agacttgggt ccttgggtcg cagggtgggag ccgacgggggt ctcaactccat 60
tgcccaggcc agagtgcggg gatatttgat aagaaacttc agtgaannnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tcatggaccg atctaaagaa 180
aactgcattt caggacctgt taaggctaca gctccagttg gaggtccaaa acgtgttctc 240
gtgactcagc aatttccttg tcagaatcca ttacctgtaa atagtggcca ggctcagcgg 300
gtcttgtgtc cttcaaattc ttcccagcgc gttcctttgc aagcacaaaa gcttgtctcc 360
agtcacaagc cggttcagaa tcagaagcag aagcaattgc aggcaaccag tgtacctcat 420
cctgtctcca ggccactgaa taacacccaa aagagcaagc agcccctgcc atcggcacct 480
gaaaataatc ctgaggagga actggcatca aaacagaaaa atgaagaatc aaaaaagagg 540
cagtgggctt tggaagactt tgaaattggg cgccctctgg gtaaaggaaa gtttggtaat 600
gtttatttgg caagagaaaa gcaaagcaag ttattcttgg ctcttaaagt gttattttaa 660
gctcagctgg agaaagccgg agtggagcat cagctcagaa gagaagtaga aatacagtc 720
caccttcggc atcctaatat tcttagactg tatggttatt tccatgatgc taccagagtc 780
tacctaattc tggaatatgc accacttgga acagtttata gagaacttca gaaactttca 840
aagtttgatg agcagagaac tgctacttat ataacagaat tggcaaatgc cctgtcttac 900
tgtcattcga agagagttat tcatagagac attaagccag agaacttact tcttggatca 960
gctggagagc ttaaaattgc agattttggg tggtcagtac atgctccatc ttccaggagg 1020
accactctct gtggcaccct ggactacctg cccctgaaa tgattgaagg tcggatgcat 1080
gatgagaagg tggatctctg gagccttgga gttctttgct atgaattttt agttgggaag 1140

```

PA-0043 US

```
cctccttttg aggcaaacac ataccaagag acctacaaaa gaatatcacg ggttgaattc 1200
acattccctg actttgtaac agagggagcc agggacctca tttcaagact gttgaagcat 1260
aatcccagcc agaggccaat gctcagagaa gtacttgaac acccctggat cacagcaaat 1320
tcatcaaaac catcaaatg ccaaaacaaa gaatcagcta gcaaacagtc ttaggaatcg 1380
tgcaggggga gaaatccttg agccagggct gccatataac ctgacaggaa catgctactg 1440
aagtttattt taccattgac tgctgccctc aatctagaac gctacacaag aaatatttgt 1500
tttactcagc aggtgtgcct taacctccct attcagaaag ctccacatca ataaacatga 1560
cactctgaag tgaaagtagc cacgagaatt gtgctactta tactggttca taatctggag 1620
gcaaggttcg actgcagccg ccccgtcagc ctgtgctagg catgggtgtc tcacaggagg 1680
caaatccaga gcctggctgt ggggaaagtg accactctgc cctgaccccg atcagttaag 1740
gagctgtgca ataaccttc tagtacctga gtgagtgtgt aacttattgg gttggcgaag 1800
cctggtaaaag ctgttggaat gagtatgtga ttctttttta gtatgaaaat aaagatata 1860
gtacagactt gtattttttc tctgggtggc ttcttttagg aatgctgtgt gtctgtccgg 1920
caccgccgta ggcctgattg gggttctagt cctccttaac cacttatctc ccatatgaga 1980
gtgtgaaaaa taggaacacg tgctctacct ccatttaggg atttgcttgg gatacagaag 2040
aggccatgtg tctcagagct gttaagggct tattttttta aaacattgga gtcatagcat 2100
gtgtgtaaac tttaaatatg caaataaata agtatctatg tctgtg 2146
```

<210> 84

<211> 3737

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 399899.1

<400> 84

```
accgttaaat ttgaaacttg gcgggtaggg gtgtgggctt gaggtggccg gtttgtagg 60
gagtcgtgtg cgtgccttgg tcgcttctgt agctccgagg gcagggttgc gaagaaagcc 120
caggcggctc gtggcccaga ggaaaggcct gcagcaggac gaggacctga gccaggaatg 180
caggatggcg gcggtgaaga aggaaggggg tgctctgagt gaagccatgt ccctggaggg 240
agatgaatgg gaactgagta aagaaaatgt acaaccttta aggcaagggc ggatcatgtc 300
cacgcttcag ggagcactgg cacaagaatc tgctgttaac aatactcttc agcagcagaa 360
acgggcattt gaatatgaaa ttcgatttta cactggaaat gacctctctg atgtttggga 420
taggtatatc agctggacag agcagaacta tcctcaagggt ggggaaggaga gtaatatgtc 480
aacgttatta gaaagagctg tagaagcact acaaggagaa aaacgatatt atagtgtcc 540
tcgatttctc aatctctggc ttaaatttag gcgtttatgc aatgagcctt tggatatgta 600
cagttacttg cacaaccaag ggattggtgt ttactttgct cagttctata tctcatgggc 660
agaagaatat gaagctagag aaaactttag gaaagcagat gcgatatttc aggaagggat 720
tcaacagaag gctgaaccac tagaaagact acagtcccag caccgacaat tccaagctcg 780
agtgtctcgg caaactctgt tggcacttga gaaagaagaa gaggaggaag tttttgagtc 840
ttctgtacca caacgaagca cactagctga actaaagagc aaagggaaaa agacagcaag 900
agctccaatc atccgtgtag gagtgctct caaggctcca agccagaaca gaggactcca 960
aaatccattt cctcaacaga tgcaaaataa tagtagaatt actgtttttg atgaaaatgc 1020
tgatgaggct tctacagcag agttgtctaa gcctacagtc cagccatgga tagcaccgcc 1080
catgcccagg gccaaagaga atgagctgca agcaggccct tggaaacacag gcaggtcctt 1140
ggaacacagg cctcgtggca atacagcttc actgatagct gtacccgctg tgcttcccag 1200
tttactcca tatgtggaag agactgcaca acagccagtt atgacaccat gtaaaattga 1260
acctagtata aaccacatcc taagcaccag aaagcctgga aaggaagaag gagatcctct 1320
acaaaggggt cagagccatc agcaagcgtc tgaggagaag aaagagaaga tgatgtattg 1380
taaggagaag atttatgcag gagtagggga attctccttt gaagaaattc gggctgaagt 1440
tttccggaag aaattaaaag agcaaagggg agccgagcta ttgaccagtg cagagaagag 1500
agcagaaatg cagaacagaa ttgaagagat ggagaagaag ctaaaagaaa tccaaactac 1560
tcagcaagaa agaacagggt atcagcaaga agagacgatg cctacaaagg agacaactaa 1620
actgcaaatg gcttccgagt ctcagaaaat accaggaatg actctatcca gttctgtttg 1680
tcaagtaaac tgttgtgcca gagaaacttc acttgcgagg aacatttggc aggaacaacc 1740
tcattctaaa gtctctcttt tctctaggtc ccagtgtacc tttctccatt tttgatgagt 1800
ttcttctttc agaaaagaag aataaaagtc ctctgcaga tccccacga gtttttagctc 1860
aacgaagacc ccttgagtt ctcaaaacct cagaaagcat cacctcaaat gaagatgtgt 1920
ctccagatgt ttgtgatgaa tttacaggaa ttgaaccctt gagcgaggat gccattatca 1980
caggcttcag aaatgtaaca atttgtccta acccagaaga cacttgtgac tttgccagag 2040
```


PA-0043 US

```

cagctcggttt tgtatccact ccttttcatg agataatgtc cttgaaggat ctcccttctg 2100
atcctgagag actgttaccg gaagaagatc tagatgtaaa gacctctgag gaccagcaga 2160
cagcttggtg cactatctac agtcagactc tcagcatcaa gaagctgagc ccaattattg 2220
aagacagtcg tgaagccaca cactcctctg gcttctctgg ttcttctgcc tcggttgcaa 2280
gcacctctc catcaaattg cttcaaattc ctgagaaact agaacttact aatgagactt 2340
cagaaaaccc tactcagtc ccatgggtgt cacagtatcg cagacagcta ctgaagtccc 2400
taccagagtt aagtgcctct gcagagttgt gtatagaaga cagaccaatg cctaagttgg 2460
aaattgagaa ggaaattgaa ttaggtaatg aggattactg cattaaacga gaatacctaa 2520
tatgtgaaga ttacaagtta ttctgggtgg cgccaagaaa ctctgcagaa ttaacagtaa 2580
taaaggatc ttctcaacct gtcccttggg acttttatat atatcaagat ggctgtattg 2700
gtttaaatga agattttgat ctttttgca gctgttatca atatcaagat ggctgtattg 2760
tttggcacca atatataaac tgcttcaccc ttcaggatct tctccaacac agtgaatata 2820
ttacccatga aataacagtg ttgattatct ataacccttt gacaatagtg gagatgctac 2880
acaaagcaga aatagtccat ggtgacttga gtccaagggt tctgattctc agaaacagaa 2940
tccacgatcc ctatgattgt aacaagaaca atcaagcttt gaagatagtg gacttttcct 3000
acagtgttga ccttaggggtg cagctggatg tttttaccct cagcgggcttt cggactgtac 3060
agatcctgga aggacaaaag atcctggcta actgttcttc tccctaccag gtagacctgt 3120
ttggtatagc agattttagca catttactat tgttcaagga acacctacag gtcttctggg 3180
atgggtcctt ctggaaactt agccaaaata tttctgagct aaaagatggg gaattgtgga 3240
ataaattctt tgtgcggatt ctgaatgcca atgatgaggc cacagtgtct gttcttgggg 3300
agcttgcagc agaaatgaat ggggtttttg acactacatt ccaaagtcac ctgaacaaag 3360
ccttatggaa ggtagggaag ttaactagtc ctggggcttt gctctttcag tgagctaggc 3420
aatcaagtct cacagattgc tgctcagag caatgggtgt attgtggaac actgaaactg 3480
tatgtgctgt aatttaattt aggacacatt tagatgcact accattgctg ttctactttt 3540
tggtacaggt atattttgac gtcactgata ttttttatac agtgatatac ttactcatgg 3600
ccttgtctaa cttttgtgaa gaactatatt attctaaaca gactcattac aaatggttac 3660
cttgttattt aacctatttg tctctacttt tccctgtact tttcccattt gtaatttgta 3720
aaatgttctc ttatgatcac catgtatttt gtaaataata aaatagtatc tgtaataat 3737
gtgcttctaa aaaaaaa

```

<210> 85

<211> 3159

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 440306.16

<220>

<221> unsure

<222> 3042, 3056, 3087, 3126-3127, 3149

<223> a, t, c, g, or other

<400> 85

```

gctgctgtca ggccgcctcg ccaagcgatt gccccgtagc tcggagtccc tggaagcagt 60
tccgggaaac cccgcgtgct gccgggatcg cgtctcagtc catcaggggg gggagggggt 120
ggcgcgcgcg ccatttctag tcgttttcaa agcgctcgc gctgattctc acggggcccg 180
ctgccggccc ccgctctgcc ctgcagcata ataaaatggc taatcaggtg aatggtaatg 240
cggtagagtt aaaagaagag gaagaaccaa tggatacttc cagtgtactc cacacagaa 300
actacaagac actgatagag gcaggcctcc cacagaagggt ggcagaaaga cttgatgaaa 360
tatttcagac aggattggta gcttatgtcg atcttgatga aagagcaatt gatgctctca 420
gggaatttaa tgaagaagga gctctgtctg tactacagca gttcaaggaa agtgacttat 480
cacatgttca gaacaaaagt gcatttttat gtggagttaa gaagacctac aggcagagag 540
agaaacaggg gagcaagggt caagagtcca caaagggacc tgatgaagcg aagatcaagg 600
ccttgcttga gagaactggg tatactctgg atgtaaaccac aggacagagg aagtatgggtg 660
gtcctccacc agacagtgtg tactctggcg tgcaacctgg aattggaacg gaggtatttg 720
taggcaaaat accaagggat ttatatgagg atgagttggg gccctttttt gagaaggccg 780
gacctatttg ggatctacgt cttatgatgg atccactgtc cggtcagaat agagggtatg 840
catttatcac cttctgtgga aaggaagctg cacaggaagc cgtgaaactg tgtgacagct 900
atgaaattcg ccctggtaaa caccttgagg tgtgcatttc tgtggcaaac aacagacttt 960
ttgttggatc cattccgaag aataagacta aagaaaacat tttggaagaa ttcagtaaag 1020

```

PA-0043 US

```

tcacagaggg tttggtggac gttattctct atcatcaacc cgatgacaaa aagaagaatc 1080
gggggttctg cttccttgaa tatgaggatc acaagtcagc agcacaagcc agacgccggc 1140
tgatgagtg aaagtaaaa gtgtggggaa atgtagttac agttgaatgg gctgaccctg 1200
tggaagaacc agatccagaa gtcattggta aggtaaaagt tttgtttgtg agaaacttgg 1260
ctactacggg gacagaagaa atattggaaa agtcattttc tgaatttgga aaactcgaaa 1320
gagtaaagaa gttgaaagat tatgcatttg ttcattttga agacagagga gcagctgtta 1380
aggctatgga tgaaatgaat ggcaaagaaa tagaagggga agaaattgaa atagtcttag 1440
ccaagccacc agacaagaaa aggaagagag gccaaagctgc tagacaggcc tccagaagca 1500
ctgcgtatga agattattac taccaccctc ctctctcgcat gccacctcca attagaggtc 1560
ggggctcgtg tgggggggaga ggtggatatg gctaccctcc agattactac ggctatgaag 1620
attactatga tgattactat ggttatgatt atcacgacta tcgtggaggc tatgaagatc 1680
cctactacgg ctatgatgat ggctatgcag taagagggaag aggaggagga aggggagggc 1740
gaggtgctcc accaccacca agggggaggg gagcaccacc tccaagaggt agagctggct 1800
attcacagag gggggcacct ttgggaccac caagaggctc taggggtggc agagggggtc 1860
ctgctcaaca gcagagaggc cgtgggtccc gtggatctcg gggcaatcgt gggggcaatg 1920
taggaggcaa gagaaaggca gatgggtaca accagcctga ttccaagcgt cgtcagacca 1980
acaaccaaca gaactggggg tccccaccca tcgctcagca gccgcttcag caaggtggtg 2040
actattctgg taactatggt tacaataatg acaaccagga attttatcag gatacttatg 2100
ggcaacagtg gaagtagaca agtaagggct tgaaaatgat actggcaaga tacgattggc 2160
tctagatcta cattcttcaa aaaaaaaaat tggcttaact gtttcatctt taagtagcat 2220
tttgcgtcca tttgtattgg gctgaagaaa tcaactattgt gtatatactc aagtcttttt 2280
atttttcttc ttttcataaa tgctcttgga cattattggg cttgcagagt tcccttattc 2340
tggggattac aatgctttta tcgtttcagg cttcatttta gcttcaaac aagctgggca 2400
cactgttaaa tcatgatttt gcagaacctt tgggttttga cagtttcatt tttttggatt 2460
tgggtagatg tacataggag tatggagtat gctgtaaaata aaaatacaag ctagtgcttt 2520
gtcttagtag ttttaagaaa ttaaagcaaa caaatttaag ttttcttgta ttgaaaataa 2580
cctatgattg tatgttttgc attcctagaa gtaggttaac tgtgttttta aattgttata 2640
acttcacacc tttttgaaat ctgccttaca aaatttgttt ggcttaaacg tcaaaagccg 2700
tgacaatttg ttctttgatg tgattgtatt tccaatttct tgttcatgta agatttcaat 2760
aaaactaaaa aatctattca aaacattacc tatttcaaat tcaatttgtt cctaaaacat 2820
tattttattc gtaatccttg caaggaatat tgttttcaaa gtataactgc ctatgtgagt 2880
gatcaaattc atgcaaaatt tcttgtttat tccaacatgt gttgtggata ttagactgag 2940
gattagtcta aattcaagta tttattccaa ttagcacttt cattgattgg tgttctctca 3000
tagtctcttc taattttgaa attttatctt ttattaaaaa anaaaaacag gttcanagac 3060
ttttgagcat tcttgcaggc attgganaat ttgcattaaa acaataaaaa tgtggctggg 3120
aaagcnnact gcaattttatt ttgaccanaa ttctttata 3159

```

<210> 86

<211> 2665

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 978730.4

<220>

<221> unsure

<222> 353-387, 694, 727

<223> a, t, c, g, or other

<400> 86

```

cctcaagcgg cgctagctct ctggctggcg ctgtagtgtg ccgcccctgg cagccccggc 60
gctgcaacgg ggagcctggg agagcggctc tcggagtctc aggcagcagg aggagcgtgt 120
gagctgtggg cgtcccttta agagcggctg gccaggcacg gcctccgcct ctacgtacgc 180
ggagcgcggg cggtcacctg gggctcgcgg agcggccaga tcgcgggcga gtcggcgcgc 240
ttccccgagg gaaggtggga gaggggaccc ggacgcgagg tgccccgaag ccctctcgag 300
cgtaaccgtc ccgcgcctct ctgaggcgga ggatgcggga gcgcactctg gcnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnncgc cgccactgtg gggcgggccc ccggacagcc 420
cacgcctggg agctggagct ggagccccgg cctctgcagc ccttcgacct gctctacgcc 480
agcgggcgcg gccgcctact acagcggaga ctacgagcga gcggtgcgcg acttgggaagc 540
ggcgctgcgc agccaccggc gcctgcggga aatccgcacg cgctgtgcc cgtccactgcg 600

```

PA-0043 US

```

cggcgcgcga cccgtctccc gcccccgccc cccggcgagg ggccccggcg ctgagctgcc 660
cccttttccg ctcccttggtg gggcgggcgc gctnttatcg cagctgtgag acccagcgcc 720
tcggggncgc cgcaccccg caccgcgtca gcgaggatgt gcgcagcgac ttccagcgca 780
gagtgcctta caactacctg cagcgggcct acatcaagct taaccagctc gaaaaagcag 840
tggaggcagc tcacacattt ttcgtggcta accctgagca catggaaatg cagcagaaca 900
ttgagaatta cagggcgaca gctgggtgtt aagcattgca gttggtagac agagaagcca 960
agccacacat ggagagttac aatgcaggag ttaaacatta tgaggctgat gactttgaga 1020
tggctatcag gcacttcgaa caagccttaa gagaatattt cgttgaagat acagaatgcc 1080
ggaccctatg tgaggggcct cagagatttg aagaatatga gtatttaggg tataaggctg 1140
gtctgtatga agctattgca gatcactaca tgcagggtgc tgtttgtcag catgaatgtg 1200
tgagggaact tgccaccgc cctggcgccc tctctccat cgagaatttt cttcctctgc 1260
actatgatta cctacagttt gcctactatc gagttggtga gtatgtgaaa gccctggagt 1320
gtgccaaagc ctatcttcta tgccatccag atgatgagga tgtcctagac aatgtggatt 1380
actatgagag tctgtggat gatagcattg acccggcac cattgaggcc agagaggatt 1440
taacaatgtt tgtgaaacgt cataagctgg agtctgagct gataaaatca gctgcagaag 1500
gtctggggtt ttcatacact gaaccgaatt attggatcag atatggagga cgacaggatg 1560
agaatcgggt cccttcagga gtgaacgtag agggagcaga agttcatgga ttctcaatgg 1620
gaaaaaagct atcacccaag atagatcgag acctaagaga aggtggctct ctactctatg 1680
agaacatcac attcgtctac aactcggagc agctgaacgg gactcagcgg gttctcctgg 1740
ataacgtcac gtcggaagaa cagtgccggg agctccacag cgtggccagt ggaatcatgc 1800
ttgttggtga tggatacaga ggaaaaactt caccatcac acccaatgaa aagtttgaag 1860
gtgcaactgt cctgaaagca ctcaaactc gttatgaagg tcgagtccca ctgaagagcg 1920
ctcgtctgtt ttatgacatc agcgaaaagg ctogaaggat tgtagaatct tattttatgc 1980
tgaactcaac tctgtatttt tccatacac acatgggtct cccaacagcc ctgtctggtc 2040
agcaggatag aagaaatgac ctcatgcac ccatccatgc tgacaactgt ttgttggatc 2100
cagaggccaa cgaatgctgg aaggagcctc ctgcttacac atttcgagac tatagtgtct 2160
tcctatatat gaatgatgac tttgaaggag gagaattcat attcacagag atggatgcta 2220
agactgtgac tgctctata aaaccaaata gtgggcgcac gatcagcttc tcactggag 2280
gagagaaccc tcattgggtg aaggcagtc taaagggaag gaggtgtgct tggtctctgt 2340
ggttcacctt ggaccactt tatagagaat tggagcgaat acaggctgat gaagtgttgc 2400
caattctgga tcaagaacag caagggaagc atgaactgaa tatcaaccct aaagatgagc 2460
tataaaaatg agaaagaatg ttctatcaa tatttattta aattgttaat cttatgagaa 2520
cctttttatt tttgtacaga gccatggtat aaattaacag gttaatgtca gtcacagat 2580
cttccttctc ttcctaagga tgcttgtgtt gcctcaatct atcaatctat ctttcttgtt 2640
ttgggttgtt ttctctctct ctctc 2665

```

<210> 87

<211> 1897

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995529.10

<400> 87

```

tcgcacttgg cttcaaagct ggctcttgg aattgagcgg agagcgacgc ggttgttcta 60
gctgccgctg cggccgcgcg ggaataataa gccgggatct accataccca ttgactaact 120
atggaagatt ataccaaaat agagaaaatt ggagaaggta cctatggagt tgtgtataag 180
ggtagacaca aaactacagg tcaagtggta gccatgaaaa aaatcagact agaaagttaa 240
gaggaagggg ttcctagtac tgcaattcgg gaaatttctc tattaaagga acttcgtcat 300
ccaaatatag tcagtcttca ggatgtgctt atgcaggatt ccaggttata tctcatcttt 360
gagtttcttt ccattgatct gaagaaatac ttggattcta tccctcctgg tcagtacatg 420
gattcttcac ttgttaagag ttatttatac caaatcctac aggggattgt gttttgtcac 480
tctagaagag ttcttcacag agacttaaaa cctcaaaatc tcttgattga tgacaaagga 540
acaattaaac tggctgattt tggccttgcc agagcttttg gaatacctat cagagtatat 600
acacatgagg tagtaacact ctggtacaga tctccagaag tattgctggg gtcagctcgt 660
tactcaactc cagttgacat ttggagtata ggcaccatat ttgctgaact agcaactaag 720
aaaccacttt tccatgggga ttcagaaatt gatcaactct tcaggatttt cagagctttg 780
ggcactccca ataataaggt gtggccagaa gtggaatctt tacaggacta taagaatata 840
tttcccaaat ggaaaccagg aagcctagca tcccatgtca aaaacttggg tgaaaatggc 900
ttggatttgc tctcgaaaaa gttaatctat gatccagcca aacgaatttc tggcaaatg 960

```

PA-0043 US

```

gcaactgaatc atccatattt taatgatttg gacaatcaga ttaagaagat gtagctttct 1020
gacaaaaagt ttccatatgt tatgtcaaca gatagttgtg tttttattgt taactcttgt 1080
ctattttttgt cttatatata tttctttgtt atcaaacttc agctgtactt cgtcttctaa 1140
tttcaaaaat ataacttaaa aatgtaaata ttctatatga atttaaatat aattctgtaa 1200
atgtgtgtag gtctcactgt aacaactatt tgttactata ataaaactat aatattgatg 1260
tcaggaatca ggaaaaaatt tgagttggct taaatcatct cagtccttat ggcagtttta 1320
ttttcctgta gttggaacta ctaaaattta ggaaaatgct aagttcaagt ttcgtaatgc 1380
tttgaagtat ttttatgctc tgaatgttta aatgtttctc tcagtttctt gccatgttgt 1440
taactataca acctggctaa agatgaatat ttttctactg gtattttaat ttttgaccta 1500
aatgtttaag cattcggaat gagaaaaacta tacagatttg agaaatgatg ctaaatttat 1560
aggagttttc agtaacttaa aaagctaaca tgagagcatg ccaaaatttg ctaagtctta 1620
caaagatcaa gggctgtccg caacagggaa gaacagtttt gaaaatttat gaactatctt 1680
attttttaggt aggttttgaa agctttttgt ctaagtgaat tcttatgcct tggtcagagt 1740
aataactgaa ggaggtgctt atcttggctt tcgagtctga gtttaaaact acacattttg 1800
acatagtgtt tattagcagc catctaaaaa ggctctaatt tatatttaac taaaattact 1860
agctttggga attaaactgt ttaacaaaaa aaaaaat 1897

```

<210> 88

<211> 3207

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995529.6

<220>

<221> unsure

<222> 1640-1735

<223> a, t, c, g, or other

<400> 88

```

ctggctcttg gaaattgagc ggagagcgac gcggttggtg tagctgccgc tgcggccgcc 60
gcggaataat aagccgggat ctaccatacc cattgactaa ctatggaaga ttataccaaa 120
atagagaaaa ttggagaagg tacctatgga gttgtgtata agggtagaca caaaactaca 180
ggtcaagtgg tagccatgaa aaaaatcaga ctagaaagtg aagaggaagg ggttcctagt 240
actgcaattc gggaaatttc tctattaaag gaacttcgtc atccaaatat agtcagtctt 300
caggatgtgc ttatgcagga ttccaggtta tatctcatct ttgagtttct ttccatggat 360
ctgaagaaat acttggattc tatccctcct ggtcagtaca tggattcttc acttgtaag 420
gtaaaagctt aactaatttt attaatattt atgcactgtg gatataaagg gactatatat 480
agaagtccct gcattttgtg ggaatatgct tggaaaaagt gttagaataa gaaaaagtat 540
ttcatttttc tccctcatgg ttagtttata caggttagag atacccatgt tattaccaga 600
tagtgtttct agtaagtaaa aattagtgcc tgagataaca tagaactggg aagtattgtt 660
ggaagctagg gtagtctggg ctttctttgg ctgtcagata catgtaaaac aaagtaatga 720
aagcctaggg cagagtgggt gttgtagggt ttttattcca gttttgaaca tgttttggtc 780
aatttattgt agacatttat tatatttcag gtaaattata aaattgtata gttttaagta 840
ctgaagtata taaaagtgtc ttattcttgc accagttcta ccaaaccact ctgcagaggt 900
agcgctgtta gttttatttg taatcttaca cttgtatgta tgttcacttt gtatgtatat 960
aaatattttt ttttttacac aaggtgggct tatttgcata tgtatatata catattttcc 1020
cttttttgtg taaaacatta tcaagacgta gatctaccta tgtctattta catttttgat 1080
ataattaaac cacttccata ttgatgaaca tttaaattat tttccaactt ggttatttgt 1140
gctcttatta acagtactgc actgaatgtc cttatagata tttatctttg tatgcaactt 1200
tataggataa attttttagaa tgggaatgat ggattgaaga tgtttattta cattttgata 1260
gatattgccg gttgccccct aaaaaacttg tagcaattta ctcttaata ctcatgggtg 1320
gtaatactta ttgttttagt aacatcattg caaaacttgg ttttatcaat ctgttaacta 1380
tgtgaaaaag gcatattaag attgttttaa ttttatattt catgacaatt taacacttca 1440
tatttagcta ttataaaccg cctatatatt cgtaggata cgttctttaa caatcttgca 1500
tgacttttgg actttctgct tttatgtctt gcttaagtct tcctcactca aagatcgaat 1560
gtattagaat aatacatgtc agtatttttc tggtaatatt agtaagtcct gtcttcacca 1620
catacttttt ttgtcttaan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1680
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngtaca 1740
ggcaacaatg gttttactta caatttttca gttttacaat gaagcagaaa tgatgcacat 1800

```

PA-0043 US

```

tcactagaaa ccatacttca tttaccata caaccattct gttttttcac tttcagtaca 1860
gtattcaata aataatgagg tattcaacac ttccaactat atgctaattgt aagtgttttg 1920
agcacaatta aggtgggcta cgcttagcta cgtttggttag gttagggtgtg ttcaatgcat 1980
ttcgacaagg tatttttcaac ttagaatgag tttaaccaga tggatcatcc gttttgtttt 2040
gttttttgaa caccacttgt ccctctaaga tggagcatct gtattacttt ccaatttcaa 2100
actgtaagtc atttttctgt gtactttgtt tttgtaatat ccatgctact tcagatgtca 2160
atgacattgt ctttggaac aaatgtcttg taaagcactt ttctctgaac taagcagcat 2220
tttatgataa ttttatccat tgaaatata aatcataata tctttgccat cactttttaga 2280
atctaatttt ttcaagaagg aaatgaatat gtaaaaatga aagaaaaggc caactgtatt 2340
gaagatacaa aatagagttg gtagcgggtat atagaagaaa aatcaagagg cttctgtgta 2400
gaaaaccaat ttgtaattta aggatcgggg accaaaaatt tttaaagact aaatgtgttc 2460
acattactat agatatgtct ataaggtgaa gattcttttc ttaggtatac aaatgtgatg 2520
ttgtatataa atgggcttcc caccacaaa tgcttattag cctaaaatgg cctgaaagct 2580
ctagtaatta aattatttct ctgcgtccta attttttgct tttgaaacag attattttaga 2640
aaatcatgta cttcgcttaa gtttctaact tttacttgct ttttccagag ttatttatac 2700
caaatcctac aggggattgt gttttgtcac tctagaagag ttcttcacag agacttaaaa 2760
cctcaaaatc tcttgattga tgacaaagga acaattaaac tggctgattt tggccttgcc 2820
agagcttttg gaatacctat cagagtatat acacatgagg tagtaacact ctggtacaga 2880
tctccagaag tattgtgagg gtcagctcgt tactcaactc cagttgacat ttggagtata 2940
ggcaccatat ttgctgaact agcaactaag aaaccacttt tccatgggga ttccgaactt 3000
gatcaactct tcacgatttc agagcttttg gcactcccaa taatgaagtg tggccagaag 3060
tggaatcttt acaggactaa gaatacatct cccaaatgga aaccaggaag cctagcatcc 3120
catgtcaaaa acttgatga aaatggcttg gatttgctct cgaaaatgtt aatctatgat 3180
ccagccaaac gaatttctgg caaaatg 3207

```

<210> 89

<211> 1362

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 995874.18

<400> 89

```

ggtgtatttg gattctcccg gggccccgcc cctcctccc tccttgacaga gccggcgccg 60
gaggagacgc acgcagctga ctttgtcttc tccgcacgac tgttacagag gtctccagag 120
ccttctctct cctgtgcaaa atggcaactc ttaaggaaaa actcattgca ccagttgcgg 180
aagaagaggc aacagttcca aacaataaga tcaactgtag ggggtgttga caagttggta 240
tggcgtgtgc tatcagcatt ctgggaaagt ctctggctga tgaactgct cttgtggatg 300
ttttggaaga taagcttaaa ggagaaatga tggatctgca gcatgggagc ttatttcttc 360
agacacctaa aattgtggca gataaagatt attctgtgac cgccaattct aagattgtag 420
tggtaactgc aggagtcctg cagcaagaag gggagagtcg gctccaatct ggtgcagaga 480
aatgttaatg tcttcaaatt cattattcct cagatcgtca agtacagtcc tgattgcac 540
ataattgttg ttccaaccc agtggacatt cttacgtatg ttacctggaa actaagtgga 600
ttaccaaac accgcgtgat tggaagtgga tctaactctg attctgctag atttcgctac 660
cttatggctg aaaaacttgg cattcatccc agcagctgcc atggatggat tttgggggaa 720
catggcgact caagtgtggc tgtgtggagt ggtgtgaatg tggcagggtg ttctctccag 780
gaattgaatc cagaaatggg aactgacaat gatagtgaat attggaagga agtgcataag 840
atggtgggtg aaagtgccta tgaagtcac aagctaaaag gatataccaa ctgggctatt 900
ggattaagtg tggtgatctt tattgaatcc atgttgaaaa atctatccag gattcatccc 960
gtgtcaacaa tggtaaaggg gatgtatggc attgagaatg aagtcttcct gagccttcca 1020
tgtatcctca atgccccggg attaaccagc gttatcaacc agaagctaaa ggatgatgag 1080
gttgctcagc tcaagaaaag tgcagatacc ctgtgggaca tccagaagga cctaaaagac 1140
ctgtgactag tgagctctag gctgtagaaa tttaaaaact acaatgtgat taactcgagc 1200
ctttagtttt catccatgta catggatcac agtttgcttt gatcttcttc aatatgtgaa 1260
tttgggctca cagaatcaaa gcctatgctt ggtttaatgc ttgcaatctg agctcttgaa 1320
caaataaaat taactattgt agtgtgaaaa aaaaaaaaaa gg 1362

```

<210> 90

<211> 84

<212> DNA

PA-0043 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 016888.1

<400> 90

gtgacccggc cgtccctcc tggcacaacg tgtgcacgaa tgttcacagc cagcagcgcg 60
gatgaccctt ggaaagactc tgct 84

<210> 91

<211> 859

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 024166.1

<220>

<221> unsure

<222> 6

<223> a, t, c, g, or other

<400> 91

cgcggnctcg gccggggcac cgggtgagtcg ccggcgctgc agagggagggc ggcactggtc 60
tcgacgtggg gcggccagcg atgaagccgc ccagttcaat acaaacaagt gagtttgact 120
catcagatga agagcctatt gaagatgaac agactccaat tcatatatca tggctatctt 180
tgtcacgagt gaattgttct cagtttctcg gtttatgtgc tcttcagggt tgtaaattta 240
aagatgttag aagaaatgtc caaaaagata cagaagaact aaagagctgt ggtatacaag 300
acatatattgt tttctgcacc agaggggaac tgtcaaaata tagagtcca aaccttcttg 360
atctctacca gcaatgtgga attatcacc atcatcatcc aatcgcagat ggagggactc 420
ctgacatagc cagctgctgt gaaataatgg aagagcttac aacctgcctt aaaaattacc 480
gaaaaacctt aatacactgc tatggaggac ttgggagatc ttgtcttgta gctgcttgtc 540
tcctactata cctgtctgac acaatatcac cagagcaagc catagacagc ctgcgagacc 600
taagaggatc cggggcaata cagaccatca agcaatacaa ttatcttcat gagtttcggg 660
acaaattagc tgcacatcta tcatcaagag attcacaatc aagatctgta tcaagataaa 720
ggaattcaaa tagcatatat atgaccatgt ctgaaatgtc agttctctag cataatttgt 780
attgaaatga aaccaccagt gttatcaact tgaatgtaaa tgtacatgtt cagatattcc 840
taaagtttta ttgacaaaa 859

<210> 92

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 039170.3

<400> 92

gctgagcgcc gggcgcgcttc cgttggcggc ggattcgaac gttcgggactg aggtttttct 60
gcctgaagaa gcgtcatacg gaccggattg ttttcgctgg ccagtggtcc ccggagcttg 120
tgtgcgatac agagagcacc tcggaagctg aggcagctgg tacttgacag agaggatggc 180
gctgtcgacc atagtctccc agaggaaagc gataaagcgg aaggctcccc gtggctttct 240
aaagcgagtc ttcaagcgaa agaagcctca acttcgtctg gagaaaagtg gtgacttatt 300
ggtccatctg aactgtttac tgtttgttca tcgattagca gaagagtcca ggacaaacgc 360
ttgtgcgagt aaatgtagag tcattaacaa ggagcatgta ctggccgcag caaaggtaat 420
tctaaagaag agcagaggtt agaagtcaaa gaacatatcc ttgaaagtta tgatgcattc 480
ttttgggtgg taacagatca taaagacatt ttttacacat cagttaatat gggattatta 540
aatattggct ataagtg 557

PA-0043 US

<210> 93
 <211> 255
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 060015.1

<400> 93
 ttccatttta caatccatcc ttcgttagag gatgagagac ttctatctag ccttttaggt 60
 tgcctgagac ctttaaagaa acagtcaaaa atttaaaatt taaaatgcgg ctacactgtt 120
 gcatggggta gtaaactctt accttaaaac tggatattgt aagaaaaaca gaaagaattc 180
 agggatcccc tttgatggct cctaattcta tacagtcttg taaatattcc tgaagactaa 240
 ccaggcgtgg tgggtg 255

<210> 94
 <211> 2430
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1309633.1

<220>
 <221> unsure
 <222> 2338
 <223> a, t, c, g, or other

<400> 94
 tctgggcggt cggcttccac tccttcaggc gtcggcagcc actagtcgtg gcgagagggg 60
 cggggtggcc ggggctggcg ctccacttgg ccccgctcc cgcccgcccg 120
 gcccccgga tgagggtata tattcggagc gagcgcggga cgccgatgag tggccgcgcg 180
 gaaggagctg gagacggctg tagctgcggt cgcgcggaga aagggtttaca ggtacataca 240
 ttacaccctt atttctacaa agcttggcta ttagagcatt atgaacatta atgacctcaa 300
 actcacgttg tccaaagctg ggcaagagca cctactacgt ttctggaatg agcttgaaga 360
 agcccaacag gtagaacttt atgcagagct ccaggccatg aactttgagg agctgaactt 420
 ctttttccaa aaggccattg aaggttttaa ccagtcttct caccaaaaga atgtggatgc 480
 acgaatggaa cctgtgcctc gagaggtatt aggcagtgtc acaagggatc aagatcagct 540
 ccaggcctgg gaaagtgaag gacttttcca gatttctcag aataaagtag cagttcttct 600
 tctagctggt gggcagggga caagactcgg cggtgcataat cctaagggga tgtatgatgt 660
 tggtttgcca tcccgttaaga cactttttca gattcaagca gagegtatcc tgaagctaca 720
 gcagggttgc gaaaaatatt atggcaacaa atgcattatt ccatgggtata taatgaccag 780
 tggcagaaca atggaatcta caaaggagtt cttcaccaag cacaagtact ttgggtttaa 840
 aaaagagaat gtaatctttt ttcagcaagg aatgctcccc gccatgagtt ttgatgggaa 900
 aattattttg gaagagaaga acaaagtttc tatggctcca gatgggaatg gtggtcttta 960
 tcgggcactt gcagcccaga atattgtgga ggatatggag caaagaggca tttggagcat 1020
 tcatgtctat tgtgttgaca acatattagt aaaagtggca gaccacgggt tcattggatt 1080
 ttgcattcag aaaggagcag actgtggagc aaaggtggta gagaaaacga accctacaga 1140
 accagttgga gtggtttgcc gagtggatgg agtttaccag gtggtagaat atagttagat 1200
 ttccctggca acagctcaaa aacgaagctc agacggacga ctgctgttca atgctgggaa 1260
 cattgccaac catttcttca ctgtaccatt tctgagagat gttgtcaatg tttatgaacc 1320
 tcagtatgca caccatgtgg ctcaaaagaa gattccttat gtggataccc aaggacagtt 1380
 aattaagcca gacaaaccca atggaaataa atgggaaaaa tttgtctttg acatcttcca 1440
 gtttgcaaa gagggttggg tatatgaagt attgagagaa gatgagtttt cccactaaa 1500
 gaatgctgat agtcagaatg ggaaagacaa ccctactact gcaaggcatg ctttgatgtc 1560
 cttcatcat tgctgggtcc tcaatgcagg gggccatttc atagatgaaa atggctctcg 1620
 cttccagca attccccgct tgaaggatgc caatgatgta ccaatccaat gtgaaatctc 1680
 tcctcttctc tcctatgctg gagaaggatt agaaagttat gtggcagata aagaattcca 1740
 tgcacctcta atcatcgatg agaatggagt tcatgagctg gtgaaaaatg gtatttgaac 1800
 cagataccaa gttttgtttg ccacgatagg aatagctttt atttttgata gaccaactgt 1860

PA-0043 US

gaacctacaa	gacgtcttgg	acaactgaag	tttaaataatc	cacaggggttt	tatttttgctt	1920
ggtgaactct	tagagctatt	gcaaacttcc	caagatccag	atgactgaat	ttcagatagc	1980
atTTTTatga	ttcccaactc	attgaaggtc	ttatttatat	aattttttcc	aagccaagga	2040
gaccattggc	catccaggaa	atttcgtaca	gctgaaatat	aggcaggatg	ttcaacatca	2100
gtttacttgc	agctggaagc	atttgttttt	gaagttgtac	atagtaataa	tatgtcattg	2160
tacatgttga	aaggtttcta	tgggtactaaa	agtttgtttt	atTTTatcaa	acattaagct	2220
tttttaagaa	aataattggg	cagtgaataa	aatgtatctt	cttgtctctg	gagtgtcatt	2280
tgtacttgaa	gaaattatTT	cattgagaaa	atatgaaact	tgggagaaaac	tttaaganaa	2340
tgcataaaaa	caaattgatg	cttcagtgag	gttgcagagt	catagaactt	ctttcagtga	2400
atatctaact	ttgggcttta	tcttcttatac				2430

<210> 95

<211> 1833

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1309633.3

<220>

<221> unsure

<222> 663-826

<223> a, t, c, g, or other

<400> 95

atTTTTtata	tgaataaatg	gatggagaca	atcactatga	aatgcagtgg	tcaagagaag	60
attggggcctt	gagccaaatc	ttggaggatg	agtatgggtt	ttatgggacc	atagttgaga	120
atgacttggga	ataatccaaa	gagtgtgact	gatctgggtt	gagtggagag	tctcaggata	180
agtaagggtga	agtaggatag	agagtgtctt	gaatgctaga	gaaagggtga	cctgtagcta	240
aactcagaag	ccctctgatt	tttattgact	ccagcaaagt	ttgagactac	gtacttgggg	300
aaagcacaga	aagagctatg	gtttgacaag	agactaatat	ttttgtgccc	tgtgtcttat	360
tggttaagatt	cttgaagtgg	caaataacaa	agaggtctaa	tgactgcaaa	ctcattgact	420
atTTtattgac	ttttgtgtta	gataacttag	aaattcagaa	ttgctgtaaa	tgtttaggtt	480
tgacctagat	gaaacaaata	gggactttga	ccttgccctc	gcttgagtgc	attctgcctt	540
agctcttttaa	aaagggactt	ttggtaaacg	agaagtactt	tgaaacatat	tgaataaaat	600
agctcagcta	atctaggaca	tttgggttgt	acagaaaaaa	catgtactgg	gaaataattt	660
aanNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	720
NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	780
NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNNNnn	NNNNNNnn	taagcctgtg	840
cagctattgg	cttctgtatt	ggatagtaca	gctttagaat	gtttgtcaac	attaatagta	900
ccaaggtagt	ggtgaagatt	aaaatgcaat	atgaaggctt	cagagcacct	agcattgggc	960
ttggcatata	gtatatacct	agtaagtagt	caccttttta	tcaaattgaa	acttggaat	1020
ggttaaaaaat	gagatgtatg	taaggggaca	gtgtgtaaaa	actagtgaag	tgctgtaaag	1080
agctaccagt	aattattggc	acttgcccc	aatagtgtcc	ttctgacctg	agaatttcat	1140
attaacttaa	tcctcaggga	atTTtagtgat	catcagggtg	gcactctatt	catttgttta	1200
actggaagaa	ttatctgcaa	gcttctcaga	ggaaagtatt	ggtttgtact	tttgcctctg	1260
caagtaacat	gggaagcaaa	gtctttaaca	catacttggt	ttttttctta	gcttgaagga	1320
tgccaatgat	gtaccaatcc	aatgtgaaat	ctctcctctt	atctcctatg	ctggagaagg	1380
attagaaagt	tatgtggcag	ataaagaatt	ccatgcacct	ctaatacatg	atgagaatgg	1440
agttcatgag	ctggtgaaaa	atggtatttg	aaccagatac	caagttttgt	ttgccacgat	1500
aggaatagct	tttatttttt	atagaccaac	tgtgaacct	caagacgtct	tggaactg	1560
aagtttaaat	atccacagg	tttatttttt	cttgttgaac	tcttagagct	attgcaaat	1620
tcccaagatc	cagatgactc	aatTTcagat	agcattttta	tgattcccaa	ctcattgaag	1680
gtcttatttta	tataattttt	tccaagccaa	ggagaccatt	ggccatccag	gaaatttcgt	1740
acagctgaaa	tataggcagg	atgttcaaca	tcagtttact	tgcagctgga	agcatttgtt	1800
tttgaagttg	tacatagtaa	taatatgtca	ttg			1833

<210> 96

<211> 901

<212> DNA

<213> Homo sapiens

PA-0043 US

<220>
 <221> misc_feature
 <223> Incyte ID No: 133798.1

<220>
 <221> unsure
 <222> 868-869, 887
 <223> a, t, c, g, or other

<400> 96
 ctaagtcac tctccaatgt atccgtgcct gttacgtgcc agtgccggtt aggagcagag 60
 gatattgtaa ttttttttaa agttcctatg aataccttct agtgggtcat aatgggtcaa 120
 ccgggaaatg gcagtagaga tgaagagatg gatggattcg aaagacattt tttggaagtt 180
 ggaattaaca ggatatgggtg aataatcaag agatagtaaa agcataatgg aggaaacaat 240
 gggtcttcct gttaccatag gaagaagctt tggagtagag ttttattcat tttaaatgca 300
 tttattgtgc actttattat aggtattgga gattgatgga aaatagtctc tgacctcaaa 360
 gagtttcaca ggaaagatga gcgatggcta tgtaatatga ccaatactgg gatagagagg 420
 tgcccagggtc actacgggag gacttaggtg atttctaact atgtctgaga gtaggggaaa 480
 tgggatcaaa gaaaacatct cagaagacat gaagcttgag cttatgtctt gaaaaattta 540
 aagtttaacc taaccaagga taaagaatca gaagaaacag catattcaaa agctaaagaa 600
 cacgggactc ttgtgtgctt tgcattgtaca cacgtgtgtg cgtgtgtgtc tgaaaggatt 660
 ggagaggagg gcgaagagaa taacaagatg aacgtcaacc taatgtagaa tgtttgaagt 720
 ttgtatttca cttaacaaga cagcggggag tgatggaagg atcttagata ggaaagggac 780
 atgaagcacg tttgccaaaga gagctcgctc tggatcatag ggttacgtga aggtgacaaa 840
 tctggaggca gatagctcac atttggannc agctgcagtc agccagntga ggagttagag 900
 g 901

<210> 97
 <211> 355
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1398377.1

<400> 97
 ctccccacc gaagtagagg aacaggatgc cagcaccctg cctgtgtctt gtgcctggga 60
 gagtgggatg aaacgccaca gagcagcctg tgcttcggct agtattaatg tgtagatagc 120
 actctggtag ctgttaactg caagtttagc ttgaattaag ggatttgggg ggaccatgta 180
 acttaattac tgctagtttt gaattttgt tttatatgga tttttattca ctcttcagac 240
 acgctactca agagtgtccc tcagctgctg aacaagcatt tgtagcttgt acaatggcag 300
 aatgggcca aagcttagtg ttgtgacctg tttttaaaat aaagtatctt gaaat 355

<210> 98
 <211> 3475
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 197766.3

<400> 98
 gcgcagtgtc cgggcccagc cgggtgcgccg cagactaggg cgctcggggc caggagagcg 60
 ggaggagcca tggccaccgc taacggggcc gtggaaaacg ggcagccgga caggaagccg 120
 ccggccctgc cgcgccccat ccgcaacctg gaggtcaagt tcaccaagat atttatcaac 180
 aatgaatggc acgaatccaa gagtgggaaa aagtttgcta catgtaacct ttcaactcgg 240
 gagcaaatat gtgaagtgga agaaggagat aagcccagc tggacaaggc tgtggaggct 300
 gcacagggtg ccttcagag gggctcgcca tggcgccggc tggatgccct gagtcgtggg 360
 cggctgctgc accagctggc tgacctggtg gagagggacc gcgccacctt ggccgcccctg 420
 gagacgatgg atacagggaa gccatttctt catgcttttt tcatcgacct ggagggctgt 480

PA-0043 US

```

attagaaccc  tcagatactt  tgcaggggtg  gcagacaaaa  tccagggcaa  gaccatcccc  540
acagatgaca  acgtcgtgtg  cttcaccagg  catgagccca  ttggtgtctg  tggggccatc  600
actccatgga  acttccccct  gctgatgctg  gtgtggaagc  tggcaccgcg  cctctgctgt  660
gggaacacca  tggtcctgaa  gcctgcggag  cagaacacct  ctcaccgccc  tttatctcgg  720
ctctctgata  aaagaggccg  ggttccctcc  aggagtgggt  aacattgtgc  caggattcgg  780
gccacagtg  ggagcagcaa  tttcttctca  cctcagatc  aacaagatcg  ccttcaccgg  840
ctccacagag  gtttgaaaaa  tggttaaaaga  agctgcgtcc  cggagcaatc  tgaagcgggt  900
gacgctggag  ctggggggga  agaaccctg  catcgtgtgt  gcggacgctg  acttggactt  960
ggcagtggag  tgtgcccata  agggagtgtt  cttcaaccaa  ggccagtgtt  gcacggcagc  1020
ctccaggggt  ttcgtggagg  agcaggtcta  ctctgagttt  gtcaggcggg  gcgtggagta  1080
tgccaagaaa  cggcccggtg  gagaccctt  cgatgtcaaa  acagaacagg  ggcctcagat  1140
tgatcaaaa  cagttcgaca  aaatcttaga  gctgatacag  agtggaaga  aggaaggggc  1200
caagctggaa  tgcgggggct  cagccatgga  agacaagggg  ctcttcatca  aaccactgt  1260
cttctcagaa  gtcacagaca  acatgcggat  tgccaaagag  gagattttcg  ggccagtgc  1320
accaatactg  aagttcaaaa  gtatcgaaga  agtgataaaa  agagcgaata  gcaccgacta  1380
tggaactaca  gcagccgtgt  tcacaaaaaa  tctcgacaaa  gccctgaagt  tggcttctgc  1440
cttagagtct  ggaacggtct  ggatcaactg  ctacaacgcc  ctctatgcac  aggtctcatt  1500
tgggtggctt  aaaatgtcag  gaaatggcag  agaactaggt  gaatacgtt  tggccgaata  1560
cacagaagt  aaaactgtca  ccatcaaact  tggcgacaag  aacccctgaa  ggaaaggcgg  1620
ggctccttcc  tcaaacatcg  gcggcgggaa  tgtggcagat  gaaatgtgct  ggaggaaaaa  1680
aatgacattt  ctgaccttcc  cgggacacat  tcttctggag  gctttacatc  tactggagtt  1740
gaatgattgc  tgttttcttc  tcaactctct  gtttattcac  cagactgggg  atgcctatag  1800
gttgtctgtg  aaatcgcat  cctgcctggg  gagggagctg  ttggccattt  ctgtgtttcc  1860
ctttaacca  gatcctggag  acagtgat  actcaggcgg  ttgttaacag  ggagtgggat  1920
ttgaagtgtc  cagcagttgc  ttgaaatgct  ttgccgaatc  tgactccagt  aagaatgtgg  1980
gaaaaccccc  tgtgtgttct  gcaagcaggg  ctcttgcacc  agcgggtctc  tcagggtgga  2040
cctgcttaca  gagcaagcca  cgctctttc  cgaggtgaa  gtgggaccat  tccttgggaa  2100
aggattcaca  gtaaggtttt  ttggttttt  tttttgttt  tcttgtttt  aaaaaagga  2160
tttcacagt  agaaagtttt  ggttagtgca  taccgtgaa  gggcgccagg  gtctttgtgg  2220
attgcatgtt  gacattgacc  gtgagattcg  gcttcaaacc  aatactgcct  ttggaatatg  2280
acagaatcaa  tagcccagag  agcttagtca  aagacgatat  cacggtctac  cttaaccaag  2340
gcactttctt  aagcagaaaa  tattgttgag  gttacctttg  ctgctaaaga  tccaatcttc  2400
taacgccaca  acagcatagc  aaatcctagg  ataattcacc  tcctcatttg  acaaatcaga  2460
gctgtaattc  gctttaacaa  attacgcatt  tctatcacgt  tcaactaacag  cttatgataa  2520
gtctgtgtag  tcttctttt  ctccagttct  gttacccaat  ttagattagt  aaagcgtaca  2580
caactggaaa  gactgctgta  ataacacagc  cttgttattt  ttaagtccca  ttttgatatt  2640
aatttctgat  tagttagtaa  ataacacctg  gattctatgg  aggacctcgg  tcttcatcca  2700
agtggcctga  gtaatttact  ggcaggttgt  gaatttttct  tttcctctt  ggggatccaa  2760
atgatgatgt  gcaatttcat  gttttaactt  gggaaactga  aagtgttccc  atatagcttc  2820
aaaaacaaaa  acaaatgtgt  tatccgacgg  atacttttat  ggttactaac  tagtactttc  2880
ctaattggga  aagtagtgct  taagtttgca  aattaagttg  gggagggcaa  taataaatg  2940
agggcccgta  acagaaccag  tgtgtgtata  acgaaaacca  tgtataaat  gggcctatca  3000
cccttgtcag  agatataaat  taccacattt  gccttccctt  catcagctaa  cacttatcac  3060
ttatactacc  aataacttgt  taaatcagga  tttggcttca  tacactgaat  tttcagtatt  3120
ttatctcaag  tagatataga  cactaacctt  gatagtata  cgtagaggg  ttcctattct  3180
tccattgtac  gataatgtct  ttaatatgaa  atgctacatt  atttataatt  ggtagagtta  3240
ttgtatcttt  ttatagttgt  aagtacacag  aggtgtata  tttaaacttc  tgtaatatac  3300
tgtatttaga  aatggaaata  tatatagtgt  taggtttcac  ttcttttaag  gtttaccct  3360
gtggtgtgg  ttaaaaaatc  ataggcctgg  gaattccgat  cctagctgca  gatcgcatcc  3420
cacaatgcga  gaatgataaa  ataaaattgg  atatttgaga  aaaaaaaaaa  aaagg  3475

```

<210> 99

<211> 1301

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 198361.5

<400> 99

agagggtggaa ctgaaaggct gcaagttcaa gttttgggcc acctggggta ctgccctcaa 60

PA-0043 US

```

gagaacgtgc tgtggcccat gctgacgttg agggaaacacc tggaggtgta tgctgccgtc 120
aaggggctca ggaaagcgga cgcgaggctc gccatcgcaa gtgagtgtct tcaaactgca 180
tgagcagctg aatgttcctg tgcagaaatt aacagcagga atcacgagaa agttgtgttt 240
tgtgtgagc ctctgggaa actcacctgt ctgtctcctg gatgaacct ctacgggcat 300
agacccaca gggcagcagc aaatgtggca ggcaatccag gcagtcgtta aaaacacaga 360
gagaggtgtc ctctgacca ccataacct ggctgaggcg gaagccttgt gtgaccgtgt 420
ggccatcatg gtgtctggaa ggcttagatg cattggctcc atccaacacc tgaaaaacaa 480
acttggcaag gattacattc tagagctaaa agtgaaggaa acgtctcaag tgacttttgt 540
ccacactgag attctgaagc ttttcccaca ggctgcaggg caggaaagggt attcctcttt 600
gttaacctat aagctgcccg tggcagacgt ttacctcta tcacagacct ttcacaaatt 660
agaagcagtg aagcataact ttaacctgga agaatacagc ctttctcagt gcacactgga 720
gaaggtattc tttagacttt ctaaagaaca ggaagtagga aattttgatg aagaaattga 780
tacaacaatg agatggaaac tcctccctca ttcagatgaa ccttaaaacc tcaaacctag 840
taattttttg ttgatctcct ataaacttat gttttatgta ataattaata gtatgtttaa 900
ttttaaagat catttaaaat taacatcagg tatattttgt aaatttagtt aacaaatata 960
taaattttta aattattctt cctctcaaac ataggggtga tagcaaacct gtgataaagg 1020
caatacaaaa tattagtaaa gtcacccaaa gagtcaggca ctgggtattg tggaataaaa 1080
actatataaa cttagaattt tttaaaaata tgactttttt accttttaca aaacattctc 1140
ttgtgaaat atgtgaaggg tatattcagt agccaagagt tgcatgacta cttcacacca 1200
gttcatgata caacaggtat acagggtttt ttttataacc aagtacaact caagagtctt 1260
ctgaaagtgt tccagaaatt gcttttaaac tcaaaagtaa g 1301

```

<210> 100

<211> 2105

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 200121.20

<400> 100

```

tctttatcaa tegtcttccg gcgcagcccc gtccctgttt tttgtgtctc tccgagctcg 60
ctgttcgtcc gggtttttta cgttttaatt tccaggtaag ttgcatatgt cctgcgaaac 120
ggcggctcct cgccacacac gcgccgcgcc ggccgtgacc ggggaatagc gactggggag 180
agtaatggcc actgacacgt aggccttggt ttctctggga cgggcgggtc cgtgcttgg 240
aggtgaaaca tttcggttgg tgggaggccg gcgcgtgta tctgagtgtg aggcctaccg 300
ggagggactg gtggcgtcgg tgggtggcag gaccacgcga cagccgacac ttactttcct 360
tatcccacgt ggccgcgcc atcttgttct gccggcgta agggaacgca gggatgttct 420
gggcttgcgc agtggcacia aatgacgggc gtggcggcta tgaatgtgag agcatgcgca 480
atgtggcccc ctaatggtgg ctgcgctgag ccagctcctc agattaccac cttattggcc 540
gcctttctca gcttttctgt agttacccat attttgttcc tctttcttgt ctattttctg 600
tgctttttct ctgctttccg tctcgctatt ttgtcacatc tccattttct ttctccttcc 660
tgccaccatt cttcatgttc ttcccacagg acttgaactg ccatgtcctc tgaagaagga 720
aagctcttcg tgggagggct caactttaac accgacgagc aggcactgga agaccacttc 780
agcagtttcg gacctatctc tgagggtggt ttgtcaagg accgggagac tcagcgggtc 840
aggggttttg gtttcatcac cttaccaaac ccagagcatg cttcagttgc catgagagcc 900
atgaacggag aggtggggcc tcctatctgc agagggacct tgtcccatc tgcggcttcc 960
ttcattcttt ttgtttttcc ctctgtgtct gctcggggca gcgtggccac caagccccgc 1020
agtgcacct cacaggagca tgactgcctt ttgttctagg gggtggaggg cagcggcaga 1080
cagagcctgg ccgcctggga ggcgacgact ggtcctgcat gaggccgaga agccacctgt 1140
ggatggttga cctgccttgg gcttaggtag tagagtctgc agacctgtgg gcctggcccc 1200
gagaggacct cgtgagtctt ctgacatgga ctctgaagcc tcaaaccaag agaggtgtct 1260
gtctagccct gatagtcggg cagcttagag gagtggggag gagaactcag cctgagttca 1320
gtcaagatgt aagtagtagc aaggggaaca tgggtcattc aggtcatttt gtgtgggatt 1380
ctatagctcc tgaagaagcc attctgggtt aaaggagctt attctggaac atggcaccca 1440
gaacctggtg ccagcagga atttttggcc tcttttgccc acttaccctt gcctgctctt 1500
ccctcaccat tgcctgact gactgccaac ccatcatcct tgtgtctccc acacttagtc 1560
tctggatggt cgtcagatcc gtgtggatca tgcaggcaag tctgctcggg gaaccagagg 1620
aggtggcttt ggggcccatt ggctggtcgc cagctactct agaggtggtg gggaccaggg 1680
ctatgggagt ggcaggtatt atgacagtcg acctggaggg tatggatatg gatatggacg 1740
ttccagagac tataatggca gaaaccaggg tggttatgac cgctactcag gaggaaatta 1800

```

PA-0043 US

cagagacaat tatgacaact gaaatgagac atgcacataa tatagatata caaggaataa 1860
 tttctgatcc aggatcggtcc ttccaaatgg ctgtatttat aaagggtttt ggagctgcac 1920
 tgaagcatct tattttatag tataatcaacc ttttggtttt aaattgacct gccaaaggtag 1980
 ctgaagacct tttagacagt tccatctttt ttttaaat tttctgccta tttaaagaca 2040
 aattatggga cgttttaga acctgagtat ttttctttt accagtttt agtttgagct 2100
 cttag 2105

<210> 101
 <211> 629
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 205489.1

<220>
 <221> unsure
 <222> 108, 111
 <223> a, t, c, g, or other

<400> 101
 gggacagtgg ttctttcatt tcaatgatca aagttccag ctttttgaca ccacaggggc 60
 accctgacaa ttctggcaat aagaacatga aaggcctggt ctttatttca ntcaattcct 120
 gctatgtgtg gtgagtgtgg gtgagccaag gggaagggtga tcctattgtc aggaggtaat 180
 ttaccatgaa taggggatga tatggaaata atgtgtgtga tccttccct gccactgttg 240
 ggatgtcttt ttaatttcct tccctcattt gtcacagccg tgaaaatact ttttctgata 300
 tgatgaatga cagatggcag ggtgccggca gcctttctgg agggatggga ggttgtgtgt 360
 gtccacgata ggggcccaat aagtactggc tgaatgagaa aatgaggagc ctcactgttg 420
 gctttctttg ggtggatgg aggtgctgag tgacctctca gcttctaga agtcacaggc 480
 cagaagccgt ggaatctcag tgggtgaaat tcctactgat ttgaggatca gggagggaga 540
 gaatcagcaa tgggtgtgctg ataaatgttt agtagttggc tctctggtaa aaaagaaaaa 600
 gaaaaagaaa aagaaaacaa aaacaaaac 629

<210> 102
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 214505.1

<400> 102
 gctcgagaat taatagagta agccagctat tgtcatagag tagcctagca tagtgcattc 60
 cagactttta tgcattttca cataattcag aaatagttaa atgaatttgg tacatccaac 120
 aatggattat taggtacgtg ttaacaaaaa gttgtgtatg cgtatgaatt gctgtagtaa 180
 gaaaatgatt tcatgattcc attaaaaaac cacttctaca tataaaaaaa ctgtaagaat 240
 atagatcaaa ttgaattaca ggtgatttca ttttctttat tattaatgta ttatctgaat 300
 ttttttatta tctgaacttt cacagtgtgt atgtgtttta ttttatc 347

<210> 103
 <211> 1525
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 215619.39

<400> 103
 gaacagggtga gagaggatgt gtgctgggcc ttggaggaag ggggccgaga ccgggcctta 60

PA-0043 US

```

cttctgtaac gatactgtga ggcacgga ggcagcctg ttgtgtccgt tttgaaggat 120
gccccgtgcc cgctgggtga gatctgtggg ggtcttctctg ctgccagccc cctactgggc 180
accccgaggag aggtggctgg gttccctacg gcggccctcc ctggtgcacg ggtacccagt 240
cctggcctgg cacagtgcc gctgctggtg ccaagcgtgg acagaggaa ctcgagccct 300
ttgtcctcc ctcagaatga acggagacca gaattcagat gtttatgccc aagaaaagca 360
ggatttctgt cagcacttct cccagatcgt tagggtgctg actgaggatg agatggggca 420
cccagagata ggagatgcta ttgcccggct caaggaggct ctggagtaca atgccattgg 480
aggcaagtat aaccgggggt tgacgggtgg agtagcattc cgggagctgg tggagccaag 540
gaaacaggat gctgatagtc tccagcgggc ctggactgtg ggctgggtgt tggaaactgt 600
gcaagctttt ttctgggtgg cagatgacat catggattca tcccttacc gccggggaca 660
gatctgctgg tatcagaagc cgggcgtggg ttggatgcc atcaatgatg ctaacctcct 720
ggaagcatgt atctaccgcc tgetgaagct ctattgccgg gagcagccct attacctgaa 780
cctgatcgag ctcttctctg agagtctcta tcagactgag attgggcaga ccctggacct 840
cctcacagcc cccaggggca atgtggatct tgtcagattc actgaaaaga ggtacaaatc 900
tattgtcaag tacaagacag ctttctactc cttctacctt cctatagctg cagccatgta 960
catggcagga attgatggcg agaaggagca cgccaatgcc aagaagatcc tgctgggat 1020
gggggagttc ttctcagattc aggatgatta ccttgacctc ttgggggacc ccagtgtgac 1080
cggcaaaatt ggcactgaca tccaggacaa caaatgcagc tggctgggtg ttcatgtgtc 1140
gcaacggggc actccagaac agtaccagat cctgaaggaa aattacgggc agaaggaggc 1200
tgaaaagtg gccgggtg aggcgtata tgaggagctg gatctgccag cagtgttctt 1260
gcaatatgag gaagacagtt acagccacat tatggctctc attgaacagt acgcagcacc 1320
cctgccccca gccgtctttc tggggcttgc gcgcaaaatc tacaagcgga gaaagtgacc 1380
tagagattgc aagggcgggg agaggaggct ctcaataaat aatcgtgtaa cttcttctgt 1440
gttctgttct tgctcgccc agccagagtc tggctctttc cagaatgtgc aggggtgggt 1500
gctgggagga ctgctgcac ggaac 1525

```

<210> 104

<211> 2037

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 218115.21

<400> 104

```

ggtagagtta gagcccgctg ggaggcgggt cggacatttc ggctctgagc ggctggggcg 60
accggcgctg cgtgcggggc tgcggcgag cctccttaag gaaggtgcaa gaggttggca 120
gcttcgattg aagcacatcg accggcgaca gcagccagga gtcattgagc acagcggcga 180
gcagaactac ggcgagcggg aatcccgctt tgcctccaga agtggagtg ctcacggatc 240
ggggaaatct gcaaggcata cccctgcaag gtctcgctcc aaggaagatt ccaggcgctc 300
cagatcaaag tccagggtccc gatctgaatc taggtctaga tccagaagaa gctcccgaag 360
gcattatacc cggtcacggg ctgctcccg ctcctataga cgatcacgta gcaggtctta 420
cagtcgagat tatcgtagac ggcacagcca cagccattct cccatgtcta ctgcaggcg 480
tcatgttggg aatcgggcaa atcctgatcc taactgttgt cttggagtat ttgggctgag 540
cttgtacacc acagaaagag atctaagaga agtgttctct aaatatgggt ccattgccga 600
tgtgtctatt gtatatgacc agcagcttag gcgttcaaga ggatttgctt ttgtatattt 660
tgaaaatgta gatgatgcca aggaagctaa agaactgtcc aatggaatgg agcttgatgg 720
gcgtaggatc agagttgatt tctctataac aaaaagacca catacgcaa caccaggaat 780
ttacatgggg agacctacct atggcagctc tcgccgtcgg gattactatg acagaggata 840
tgatcggggc tatgatgatc gggactacta tagcagatca tacagcagga ggagggtgta 900
ggtaggacgg aggatggaga gctgcccagg acagggatca gatttataga aggcggctac 960
cttctcctta ctatagtcgt ggaggataca gatcacgttc cagatctcga tcatactcac 1020
ctcgctgcta ttaaagcatg aagactttct gaaacctgcc ctagagctgg gatattgttt 1080
tggggcaata ttttttattg tctcttgttt aaaaagtga cagtgcctag tgaagttagg 1140
tgacttttac accttttacg atgactactt ttgggtggagt tgaaatgctg ttttcattct 1200
gcatttgtgt agtttgggtg tttgttccaa gttaagtgtt ttcagaaaag tatgttttgc 1260
atgtattttt ttacagtcta aattttgact gctgagaagt ttctattgta caaaacttca 1320
tttaaaagggt ttttctactg aatccagggt attctgaaga tcgaagcctg tgtaaaatgc 1380
taccaaatgg caaaaagcaa caataaacag tttgattttt acttttcttt ctaacatatc 1440
aatgcttagc agaactatct agattgtcag tagtaaattt aaagacaaat gcccgtttct 1500
ctccagtcac tgaaacatac catacttata tacctgcaac taagtgttta aaattatgct 1560

```

PA-0043 US

```
ctgtaactct gtactgctag tattagaact aaaaatctta aaatacagcc agtgcttaat 1620
gcttatataca atgtggatgt gtcggctttt atgtaatctg taatatgtat agcaggaaat 1680
acgaagagtt acacagtgtg tgccttaaaa ggctgtttct taaagggtgtt acaaggggat 1740
aatgggtatgt caactagtta tcagcaagtg acaatacatt ccaccacaaa tacactcttg 1800
ttcttctagc ttttagacta tatgaaaaaa ccgggtgctt caaagtacat gataagggaa 1860
cactatacct gtcattggatg aactgaagac tttgcctgtt ctttttttaa atattatttt 1920
cagggtccttt gcttaccaaa ggaggcccaa tttcactcaa atgttttgag aactgtgttt 1980
aaataaacgc aaatgaaaag aaaaatgtca aacaaacaac aaaaaagggc gcgggcc 2037
```

<210> 105

<211> 663

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 229101.1

<400> 105

```
ttagcttcaa tttttttttt ctttgtggga aatgcaattt gcaaaagaaa gttcttataa 60
gagtgaagact ttgttcattt gaagaatgat ggagctggct tttctgtcaa tttctgcagc 120
tttttcttat tctccaaaaa ccagaaagtg gtaatatgtt ttagtgatca aatcaaagat 180
gatattttaa aacacatggt gacaggagga cctagaggca ttatgagtat tagaaagtct 240
gcaaattagg ttgtttgctt tgtggtgagg tgtgaaacag gatatgcatt tttgaaaatg 300
tatctttgga tttgctgaac tggggtcaaa tgtggtcaaa ttgagagagc ttatgatgcc 360
agttttactg cattcttttt agttgtgttc cccaaaatcc tgcccatga cttttaccag 420
aacaagtaaa cacatcctaa aaacaaagt atgttctagt atggttttta aagtcttccc 480
ttttggttat ttggaaaata gtgcaaacgt gcggtctagt gggttatggc aaaggcagag 540
caaaggaggt gcggccttag ccagcccag ccagctgcca ttgctccac gctctgtgtg 600
gtcttgacct aatgcccaga aaagcaagg tccccacttt ctacctcttt atttttaaaa 660
gta 663
```

<210> 106

<211> 673

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 231399.1

<400> 106

```
atttttcttc acaatttctt tacctatcac ttttccatct gtttctcttc ctgctcctag 60
aaattcatta atgtattggg ccttttggat ccgtccctca agatttatct tttccttcat 120
cattttcatt tattgtttta attttcacct gatcaccttg gctgcttatt caattttcaa 180
cagtgcattt atctctttca tttagtgtga gtttttaaat ttgaaaatca tgtttctcaa 240
ttccagaaat ttttttctt gtttttaatt tatttcttcc agtggtgtta ttgctttttg 300
ctaaatatga ttttgactc tttctatagt tctatttcag tcagaaataa tataaatttt 360
gaaatgcaca gacaatggat atgaattgtc acctatggaa atactacgag ggactggaga 420
aatttggaga atggaaaact ccaaggaagg tcttttgggg gataggcaaa actgggattg 480
attgaaatca attttgtgat tctgtatttc ttcactgtat caacattttg cttcacatac 540
tgtttcttag acatacctag agaggcctac ctaagtgatg gattaaagat tttaagaaag 600
tatcttttaga ctgtaatgca taatttactt actctctcaa tctgtcttcc ccctcccttc 660
caagtctctg atg 673
```

<210> 107

<211> 1340

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PA-0043 US

<223> Incyte ID No: 244634.3

<400> 107

```

taataactga atgtgaaaca tcaattcttc agttaattgt acaagtatga taaattatac 60
ggagtccaca caggcagact tgaccttgac cagatagtct tcaagatgcc aaactggggc 120
ggaggcgcaa aatgtggagc ctgtgaaaag accgtctacc atgcagaaga aatccagtgc 180
aatggaagga gtttccacaa gacgtgtttc cactgcatgg cctgcaggaa ggctcttgac 240
agcacgacag tcgcgggtca tgagtcggag atctactgca aggtgtgcta tgggcgcaga 300
tatggcccca aagggatcgg gtatggacaa ggcgctggct gtctcagcac agacacgggc 360
gagcatctcg gcctgcagtt ccaacagtc ccaaagccgg cacgctcagt taccaccagc 420
aacccttcca aattcactgc gaagtttggg agtccgaga agtgccctcg atgtggcaag 480
tcagtctatg ctgctgagaa ggttatggga ggtggcaagc cttggcacia gacctgtttc 540
cgctgtgcca tctgtgggaa gagtctggag tccacaaatg tcaactgacaa agatggggaa 600
ctttatttga aagtttgcta tgccaaaaat tttggcccca cgggtatttg gtttggaggc 660
cttacacaac aagtggaaaa gaaagaatga agaggtgcgc cgtttctcag attttttgcg 720
agcctaaaac acttgccaag taatcctgca cagatcgata cctttcccca aatagcctct 780
cctttgtagt cgtacattat gtgtttctcc tcagaagtga tcaggtcttt actgaatgtt 840
agaagaggcc tttggaagaa aattatgtaa agtttaatct ataacaaatg ctttattatt 900
tataatgctt ggaatgggag aggcaataaa taaatgtttt agtgctatct tgtatggctc 960
tagatctttt ctttgagata gaaattttca aaaacataaa gctagttaa aaaacgagtt 1020
gcagagcata taataaattt ggatgtcaac tgagaaagga gtgagaagga agaaacaatg 1080
cgcaaaggaa agcagtcctt cagaatctgt cagccaagtg tctttctagt tactgcta 1140
ggagaagaaa acaggggggtc tgggagaaaa tagagaacat gatagcaaaa tctaaaagga 1200
aaatcaaac taataaaatt gctgaagagt tgatcccttt gtcctatcgt ggggctttgt 1260
aatgttacac atctcgtgaa aactcagaaa tgacaataaa gcgtggcatt tgcctctgta 1320
ttataaatga aaaaaaaaaa 1340

```

<210> 108

<211> 261

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 249273.1

<400> 108

```

ttgtattata taggttgaaa ttaaagatga ataaataaaa taaaatgaca caaggccaaa 60
aacaaatggg tttaactgac cagagcgaga gaactctgca ctatgaaccc aaaccagct 120
caaaaagata aaatctagtc atttaagata atcataagtt gtatgatgat aattgtataa 180
aaatttgtat gatgataatt gtataataat tatacatgaa agtgccaaaa ccctacaatt 240
aaacactgta taatggaatt a
261

```

<210> 109

<211> 2404

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 251651.4

<220>

<221> unsure

<222> 710, 717, 724, 982-1007

<223> a, t, c, g, or other

<400> 109

```

cattaaccgc cagatttgaa tcgcgggacc cgttggcaga ggtggcggcg gcggcatggg 60
tgccccgacg ttgcccctg cctggcagcc ctttctcaag gaccaccgca tctctacatt 120
caagaactgg cccttcttgg agggctgcgc ctgcaccccg gagcggatgg ccgaggctgg 180
cttcatccac tgccccactg agaacgagcc agacttggcc cagtgtttct tctgcttcaa 240

```

PA-0043 US

```

ggagctggaa ggctggggagc cagatgacga ccccatagag gaacataaaa agcattcgtc 300
cggttgcgct ttcccttctg tcaagaagca gtttgaagaa ttaacccttg gtgaattttt 360
gaaactggac agagaaagag ccaagaacaa aattgcaaag gaaaccaaca ataagaagaa 420
agaatttgag gaaactgcga agaaagtgcg ccgtgccatc gagcagctgg ctgccatgga 480
ttgaggcctc tggcgggagc tgccctgggtcc cagagtggct gcaccacttc cagggtttat 540
tccctgggtgc caccagcctt cctgtggggcc ccttagcaat gtcttaggaa aggagatcaa 600
cattttcaaa ttagatgttt caactgtgct cctgttttgt cttgaaagtg gcaccagagg 660
tgcttctgcc tgtgcagcgg gtgctgctgg taacagtggc tgcttctctn tctctcnctc 720
ttntttgggg gctcattttt gctgttttga ttcccgggct taccaggtga gaagtggagg 780
aggaagaagg cagtgtccct tttgctagag ctgacagctt tggtcgcgtg ggcagagcct 840
tccacagtga atgtgtctgg acctcatgtt gttgaggctg tcacagtcct gagtgtggac 900
ttggcagggtg cctgttgaat ctgagctgca ggttccttat ctgtcacacc tgtgcctcct 960
cagaggacag tttttttgtt gnnnnnnnnn nnnnnnnnnn nnnnnnnnggt agatgcatga 1020
cttgtgtgtg atgagagaat ggagacagag tccctggctc ctctactgtt taacaacatg 1080
gctttcttat tttgtttgaa ttgttaattc acagaatagc acaaactaca attaaaacta 1140
agcacaaaagc cattctaagt cattggggaa acgggggtgaa cttcaggtgg atgaggagac 1200
agaatagagt gataggaagc gtctggcaga tactcctttt gccactgctg tgtgattaga 1260
caggcccagt gagccgcggg gcacatgctg gccgctcctc cctcagaaaa aggcagtggc 1320
ctaaatecctt tttaaatgac ttggctcgat gctgtggggg actggctggg ctgctgcagg 1380
ccgtgtgtct gtcagcccaa ccttcacatc tgtcacgttc tccacacggg ggagagacgc 1440
agtccgcccc ggtccccgct ttctttggag gtcagcagct cgcgagggtt gaagtctggc 1500
gttaagatgat ggatttgatt cgccctcctc cctgtcatag agctgcaggg tggattgtta 1560
cagcttcgct ggaaacctct ggaggtcatc tcggctgttc ctgagaaata aaaagcctgt 1620
catttcaaac actgctgtgg accctactgg gtttttaaaa tattgtcagt ttttcatcgt 1680
cgctccctagc ctgccaacag ccatctgccc agacagccgc agtgaggatg agcgtcctgg 1740
cagagacgca gttgtctctg ggcgtttgcc agagccacga accccagacc tgtttgtatc 1800
atccgggctc cttccgggca gaaacaactg aaaatgcact tcagaccacac ttatttctgc 1860
cacatctgag tcggcctgag atagactttt ccctctaaac tgggagaata tcacagtggg 1920
ttttgttagc agaaaatgca ctccagcctc tgtactcac taagctgctt atttttgata 1980
tctgtgtcag tctgtaaatg gatacttcac ttttaataact gttgcttagt aattggcttt 2040
gtagagaagc tggaaaaaaa tggttttgtc ttcaactcct ttgcatgcca ggcgggtgatg 2100
tggatctcgg cttctgtgag cctgtgctgt gggcagggct gagctggagc cgccccctctc 2160
agcccgcttg ccacggcctt tccttaaagg ccctccttaa aaccagaccc tcatggctgc 2220
cagcacctga aagcttcctc gacatctgtt aataaagccg taggccttgt ctaagcgcaa 2280
ccgcctagac tttctttcag atacatgtct acatgtccat ttttcagggt ctctaagttg 2340
gagtggagtc tgggaagggg tgtgaatgag gcttctgggc tatgggtgag gttccaatgg 2400
cagg 2404

```

<210> 110

<211> 3559

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 253570.32

<400> 110

```

tccccggggg tcccaccccg cccgcaccgc cgggggacccg gccgggtccgg cgcgagcacc 60
cgtccggggg cctggctcgg cccccagggt ggaggagccc ggagcccgcc ttcggagcta 120
cggcctaacg gcgggcggcga ctgcagtctg gagggtccac acttggtgatt ctcaatggag 180
agtgaaaacg cagattcata atgaaaacta gcccccgtcg gccactgatt ctcaaaagac 240
ggaggctgcc ccttcctgtt caaaatgccc caagtgaac atcagaggag gaacctaaga 300
gatccccctg ccaacaggag tctaatacag cagaggcctc caaggaagtg gcagagtcca 360
actcttgcaa gtttccagct gggatcaaga ttattaacca ccccaccatg cccaacacgc 420
aagtagtggc catcccaaac aatgctaata ttcacagcat catcacagca ctgactgcca 480
agggaaaaga gagtggcagt agtgggcccc acaaattcat cctcatcagc tgtggggggg 540
ccccaactca gctccaggga ctccggcctc aaacccaaac cagctatgat gccaaaagga 600
cagaagtgac cctggagacc ttgggaccaa aacctgcagc tagggatgtg aatcttccta 660
gaccacctgg agccctttgc gagcagaaac gggagacctg tgcagatggg gaggcagcag 720
gctgcactat caacaatagc ctatccaaca tccagtggct tcgaaagatg agttctgatg 780
gactgggctc ccgcagcatc aagcaagaga tggaggaaaa ggagaattgt cacctggagc 840

```


PA-0043 US

```

agcgacaggt taaggttgag gagccttcga gaccatcagc gtcctggcag aactctgtgt 900
ctgagcggcc accctactct tacatggcca tgatacaatt cgccatcaac agcactgaga 960
ggaagcgcat gactttgaaa gacatctata cgtggattga ggaccacttt ccctacttta 1020
agcacattgc caagccaggc tggaagaact ccatccgcca caacctttcc ctgcacgaca 1080
tgtttgtccg ggagacgtct gccaatggca aggtctcctt ctggaccatt caccacagtg 1140
ccaaccgcta cttgacattg gaccaggtgt ttaagccact ggaccagggt tctccacaat 1200
tgccccgagca cttggaatca cagcagaaac gaccgaatcc agagctccgc cggaacatga 1260
ccatcaaaac cgaactcccc ctgggcgcac ggcggaagat gaagccactg ctaccacggg 1320
tcagctcata cctggtacct atccagttcc cgggtgaacca gtcactgggtg ttgcagccct 1380
cgggtgaaggt gccattgccc ctggcggcct cctcatgag ctgagagctt gccgcgcata 1440
gcaagcgagt ccgcatggcc cccaagggtt ttggggaaca ggtggtgttt ggttacatga 1500
gtaagtctct tagtggcgat ctgcgagatt ttggtacacc catcaccagc ttgtttaatt 1560
ttatctttct ttgtttatca gtgctgctag ctgaggagggt gatagctcct ctttcttctg 1620
caggaccagg gaaagaggag aaactcctgt ttggagaagg gttttctcct ttgcttcag 1680
ttcagactat caaggaggaa gaaatccagc ctggggagga aatgccacac ttagcgagac 1740
ccatcaaagt ggagagccct cccttggaag agtggccctc cccggcccca tctttcaaag 1800
aggaatcatc tactcctgg gaggattcgt cccaatctcc caccccaaga cccaagaagt 1860
cctacagtgg gcttaggtcc ccaaccgggt gtgtctcgga aatgcttgtg attcaacaca 1920
gggagaggag ggagaggagc cgtctctcga ggaaacagca tctactgcct cctgtgtgg 1980
atgagccgga gctgctcttc tcagaggggc ccagtaactc ccgctgggccc gcagagctcc 2040
cgttcccagc agactcctct gaccctgcct cccagctcag ctactcccag gaagtgggag 2100
gaccttttaa gacacccatt aaggaaacgc tgcccatctc ctccaccccg agcaaactctg 2160
tcctcccag aacccctgaa tcctggaggc tcacgcccc agccaaagta gggggactgg 2220
atctcagccc agtaciaaac tcccagggtg cctctgacct cttgcctgac cccctggggc 2280
tgatggatct cagcaccact cccttgcaaa gtgctcccc ccttgaatca ccgcaaaggc 2340
tcctcagttc agaaccctta gacctcatct ccgtccctt tggcaactct tctccctcag 2400
atatagacgt cccaagcca ggctccccgg agccacaggt ttctggcctt gcagccaatc 2460
gttctctgac agaaggcctg gtcctggaca caatgaatga cagcctcagc aagatcctgc 2520
tgacatcag ctttcctggc ctggacgagg acccactggg ccttgacaac atcaactggt 2580
cccagtttat tcctgagcta cagtagagcc ctgcccttgc cctgtgtctc aagctgtcca 2640
ccatcccggg cactccaagg ctgagtcac ccaagcctc tgagttagga cagcaggcag 2700
ggactgttct gctcctcata gctccctgct gcctgattat gcaaaagtag cagtcacacc 2760
ctagccactg ctgggacctt gtgttcccca agagtatctg attcctctgc tgtccctgcc 2820
aggagctgaa ggggtgggaa aacaaaggca atggtgaaaa gagattagga acccccagc 2880
ctgtttccat tctctgccc gcagtctctt accttccctg atctttgcag ggtggtccgt 2940
gtaaataagta taaattctcc aaattatcct ctaattataa atgtaagctt atttccttag 3000
atcattatcc agagactgcc agaaggtggg taggatgacc tggggtttca attgacttct 3060
gttccttgct tttagttttg atagaaggga agacctgcag tgcacggttt cttccaggct 3120
gaggtacctg gatcttgggt tcttactgc agggaccag acaagtggat ctgcttgcca 3180
gagtcctttt tgccctccc tgccacctcc ccgtgtttcc aagtcagctt tctgcaaga 3240
agaaatcctg gttaaaaaag tcttttgtat tgggtcagga gttgaatttg ggggtgggag 3300
atggatgcaa ctgaagcaga gtgtgggtgc ccagatgtgc gctattagat gtttctctga 3360
taatgtcccc aatcatacca gggagactgg cattgacgag aactcaggtg gaggttgag 3420
aaggccgaaa gggccctga cctgcctggc ttccttagct tgccctcag ctttgcaaag 3480
agccacccta ggcccagct gaccgcatgg gtgtgagcca gcttgagaac actaactact 3540
caataaaagc gaaggtgga 3559

```

<210> 111

<211> 796

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 256564.1

<220>

<221> unsure

<222> 757, 774-775

<223> a, t, c, g, or other

<400> 111

PA-0043 US

```

ggaagatgga gttgctctgg ttcaaatgtc tcttacatatt ctctcctccc ttatataaga 60
gaactgtaat cctaagggtt gtaggtagtt gaagacgcag cttctataac ttcttcaggc 120
taattagggg tgatgatatt cctgcttaac tattgggtat cttgcattca ggggttcagaa 180
tagctcagtc agaaagtgtt gatatggcaa gggccattca taactcttga gttccaacaa 240
aatgtgatat ctgaaagatt aataagtgtt cagtttaaga aaatgttgag taaacttatt 300
ctgcattcct acacaaagag tacgacagca ctatattcca caaccataaa acaaaaataag 360
taaaattatc ccaagtaaag taaataagaa ggcttttcat gaactgggag acttttgaac 420
caaagtgata tggagttgct atacatgcta tacattccaa tatgtgctca gaattagaat 480
attgatccag attttttaca ttacccacct ctcttggtac ttttgaacag ccataagaga 540
tactgggttg gttcacagaa ataagcaggt tcagtctaaa tcgtagaaag aaaactcaaa 600
aataactgat gagatcacia ttttataaca agtgtagcat tgtttttaaa atatgttttt 660
tctatctctc cattctccca tttttactaa agacaaatcc taacagggct gatttgtttg 720
caaaaatagc ccatagtctt acacttagcc cgattanttg tgtaaagtac agcnnaaata 780
atcatttttc acatag 796

```

<210> 112

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 286547.1

<220>

<221> unsure

<222> 379, 399

<223> a, t, c, g, or other

<400> 112

```

gccagtgga attttgccca actcttttat tatacatccc tcagttttat tgtcagaaat 60
aaaatgttat gctgaatggg aagagcctaa aataatacaa cattccttta tacaatgtac 120
ttgggtcccaa cttgattgtg atgtcagaaa taaacaatat ttaatcattt tccaaggagc 180
tggtctccct tgaaccagcc ccttgcaagtc attgttctcc tgactgatgt tatcagagat 240
cctatgcagg atctaattcc tactcatgcc agagcaagcc aggagaagct ctaccaactc 300
ctgggagcta caaagcgata gggtcccgaga gtctaaaact attggaaatg atgtttgtct 360
aaaatggcca gagacaacnt aaataagcct ccaggaagng gagaaccaga aaaactgaga 420
agaaaaaaaa a 431

```

<210> 113

<211> 4015

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 331100.2

<400> 113

```

ctccagttcc gtacccgagg cctccgtggt gaagaggtgc cggacccgat gagctcggga 60
gtccaccatc gctctgcaag ccgcaggaaa ccatcaagat ctcatatttac agctgggatt 120
ctctggttca cagaggtaac ggagcttgcc cgaggccagt taaacgagaa gattcatcac 180
cgctttgatg gctgcctcac aaacttcaca aactggtgca tctcacgttc cttttgcaga 240
tttggtgttc acttttagaac gaatacagaa aagtaaagga cgtgcagaaa aaatcacaga 300
cttcagggaa ttttttagatt cttggagaaa atttcatgat gctcttcata agaaccacaa 360
agatgtcaca gactcttttt atccagcaat gagactaatt cttcctcagc tagaaagaga 420
gagaatggcc tatggaatta aagaaactat gcttgctaag ctttatattg agttgcttaa 480
tttacctaga gatggaaaag atgccctcaa acttttaaac tacagaacac ccactggaac 540
tcatggagat gctggagact ttgcaatgat tgcataattt gtgttgaaag caagatgttt 600
acagaaagga agtttaacca tacagcaagt aaacgacctt ttagactcaa ttgccagcaa 660
taattctgct aaaagaaaag acctaataaa aaagagcctt cttcaactta taactcagag 720
ttcagcactt gagcaaaagt ggcttatagc gatgatcata aaggatttaa agcttggtgt 780

```

PA-0043 US

tagtcagcaa	actatctttt	ctgtttttca	taatgatgct	gctgagttgc	ataatgtcac	840
tacagatctg	gaaaaagtct	gtaggcaact	gcatgatcct	tctgtaggac	tcagtgatat	900
ttctatcact	ttattttctg	cattttaaac	aatgctagct	gctattgcag	atattgagca	960
cattgagaag	gatatgaaac	atcagagttt	ctacatagaa	accaagctag	atggtgaacg	1020
tatgcaaagt	cacaaagatg	gagatgtata	taaatacttc	tctcgaaatg	gatataacta	1080
cactgatcag	tttgggtgctt	ctcctactga	agggttctct	acccatttca	ttcataatgc	1140
attcaaagca	gatatacaaa	tctgtattct	tgatgggtgag	atgatggcct	ataatcctaa	1200
tacacaaact	ttcatgcaaa	agggaactaa	gtttgatatt	aaaagaatgg	tagaggattc	1260
tgatctgcaa	acttgttatt	gtgtttttga	tgtattgatg	gttaataata	aaaagctagg	1320
gcatgagact	ctgagaaaag	ggtatgagat	tcttagtagt	atttttacac	caattccagg	1380
tagaataag	atagtgcaga	aaacacaagc	tcatactaag	aatgaagtaa	ttgatgcatt	1440
gaatgaagca	atagataaaa	gagaagaggg	aattatggta	aaacaacctc	tatccatcta	1500
caagccagac	aaaagaggtg	aagggtggtt	aaaaattaaa	ccagagtatg	tcagtggact	1560
aatggatgaa	ttggacattt	taattgttgg	aggatattgg	ggtaaaggat	cacgggggtg	1620
aatgatgtct	cattttctgt	gtgcagtagc	agagaagccc	cctcctgggtg	agaagccatc	1680
tgtgtttcat	actctctctc	gtgttgggtc	tggctgcacc	atgaaagaac	tgtatgatct	1740
gggtttgaaa	ttggccaagt	attggaagcc	ttttcataga	aaagctccac	caagcagcat	1800
tttatgtgga	acagagaagc	cagaagtata	cattgaacct	tgtaattctg	tcattgttca	1860
gattaaagca	gcagagatcg	taccagtgta	tatgtataaa	actggctgca	ccttgcgttt	1920
ttccagaatt	gaaaagataa	gagatgacaa	ggagtggcat	gagtgcacga	ccctggacga	1980
cctagaacaa	cttaggggga	aggcatctgg	taagctcgca	tctaaacacc	tttatatagg	2040
tggtgatgat	gaaccacaag	aaaaaaaagc	gaaagctgcc	ccaaagatga	agaaagttaa	2100
tggaattatt	gagcacttaa	aagcacctaa	ccttactaac	gttaacaaaa	tttctaatat	2160
atttgaagat	gtagagtttt	gtgttatgag	tggaaacagat	agccagccaa	agcctgacct	2220
ggagaacaga	attgcagaat	ttggtggtta	tatagtacaa	aatccaggcc	cagacacgta	2280
ctgtgttaatt	gcagggtctg	agaacatcag	agtgaaaaac	ataattttgt	caaataaaca	2340
tgatgttgct	aagcctgcat	ggctttttaga	atgtttttaag	accaaaagct	ttgtaccatg	2400
gcagcctcgc	tttatgattc	atatgtgccc	atcaacccaa	gaacattttg	cccgtgaata	2460
tgattgctat	ggtgatagtt	atttcattga	tacagacttg	aaccaactga	aggaagtatt	2520
ctcaggaatt	aaaaattcta	acgagcagac	tcctgaagaa	atggcttctc	tgattgctga	2580
tttagaatat	cgggtattcct	gggattgctc	tcctctcagt	atgttttcgac	gccacaccgt	2640
ttatttggac	tcgtatgctg	ttattaatga	cctgagtacc	aaaaatgagg	ggacaagggt	2700
agctattaaa	gccttggagc	ttcggtttca	tggagcaaaa	gtagtttctt	gttttagctga	2760
gggagtgtct	catgtaataa	ttggggaaga	tcatagtcgt	gttgagcatt	ttaaagcttt	2820
tagaagaact	tttaagagaa	agtttaaaat	cctaaaagaa	agttgggtaa	ctgattcaat	2880
agacaagtgt	gaattacaag	aagaaaacca	gtatttgatt	taaagctagg	tttcctagt	2940
aggaagcct	ctgatctggc	agactcattg	cagcaggtgg	taatgataaa	atactaaact	3000
acattttatt	tttgatatct	aaaaatctat	gcctaaaaag	tatcattaca	tataggaaaa	3060
caataatttt	aacttttaag	gttgaaaaga	caatagccca	aagccaagaa	agaaaaatta	3120
tcttgaatgt	agtattcaat	gattttttat	gatcaagggtg	aaataaacag	tctaaagaag	3180
agggtgtttt	ataatatcca	tatagaaatc	tagaattttt	acttagatac	taataaaaata	3240
catttagaaa	cttttaagat	catgaaaaag	cattaacctt	ctaaacagta	tattctaaaa	3300
agtcaaaacg	ttacaatatg	tttttatcta	ataaaaagcac	tgcaagaaaa	tagggtagaa	3360
ttgttacagc	tggacttgta	aaaatatgtc	tttttactca	gggttttaaa	tgtcccat	3420
aaatatgaaa	tgtaaacaaa	tttgtttttt	aagggttaagg	ccaaatgtaa	caataaaaacc	3480
ctgtcgatgg	ttttagctaa	attagaggaa	gttgatgatg	acttaatgat	ctaaaaaact	3540
aaaattgaa	tggtttgatt	aaaaataaag	cttgcaattt	taaaagtagc	tcacatttaa	3600
tttcttgtgt	gaaatagaac	atgcttttaa	ggaagtattt	ttatgtgaat	ttgcattcca	3660
gtataaatag	tattcacaaa	aaagattttc	ctagatttta	tctattgaat	agggtgtcaat	3720
atggcatgca	tattgtaact	ttcattagaa	ataagttgct	ttgactttta	aaaatgacat	3780
agtttagatta	tttaagtc	atgtatatag	tatatattat	gtatggattt	atataccaaa	3840
ttttggaata	cagcctatct	catgaccata	ttgaaatgta	cggaatttga	tcacatgcgat	3900
actatgtgtg	cattatttga	aagttattgg	aaattttatt	caaaccgtgg	aacaaatgta	3960
tgtgattttg	ttatacttct	taatttaa	aaaatattta	atgcactatt	aaaa	4015

<210> 114

<211> 2689

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

PA-0043 US

<223> Incyte ID No: 332240.1

<400> 114

```

cacacctgat ggtgtgactc ggccgacgcg agcgccgcgc ttcgctttca gctgctagct 60
ggcccaaggg aggcgaccgc ggagggtggc gaggggcccgc caggacccgc agccccgggg 120
ccggggccggt ccggaccgcc agggagggca ggtcagtggt cagatcgctt ccgcgggatt 180
caatctctgc ccgctctgat aacagtcctt ttccctggcg ctcaacttct gcctggcacc 240
cggctggggcg cctcaagacc gttgtctctt cgatcgcttc tttggacttg gcgaccattt 300
cagagatgtc ttccagaagt accaaagatt taattaaaag taagtgggga tcgaagccta 360
gtaactccaa atccgaaact acattagaaa aattaaagg agaaattgca cacttaaaga 420
catcagtggg tgaatcacac agtgggaaag gaaagctgac tgataaagag agacacagac 480
ttttggagaa aattcgagtc cttgaggctg agaaggagaa gaatgcttat caactcacag 540
agaaggacaa agaaatacag cgactgagag accaactgaa ggccagatat agtactaccg 600
cattgcttga acagctggaa gagacaacga gagaaggaga aaggaggagg caggtgttga 660
aagccttata tgaagagaaa gacgtattga aacaacagtt gtctgctgca acctcacgaa 720
ttgctgaact tgaaagcaaa accaatcac tccgtttata acagactgtg gctccaaact 780
gcttcaactc atcaataaat aatattcatg aaatggaaat acagctgaaa gatgctctgg 840
agaaaaatca gcagtggctc gtgtatgatc agcagcggga agtctatgta aaaggacttt 900
tagcaaagat ctttgagttg gaaaagaaaa cggaaacagc tgctcattca ctcccacagc 960
agacaaaaaa ggcctgaatc agaaggttat cttcaagaag agaagcagaa atgttacaac 1020
cgatctcttg gcaagtgcaa aaaaagatct tgaggttgaa ccgacaaacc ataagctcag 1080
ctgagctttt gaactgagtg aatttgcgaa gaaaatagtg aagaaaccca aaaagaagtt 1140
cacaagtatt aaatcagctg tgtgtattca caaagaagga caagatgtgc aacatctggg 1200
aagatgatag gcataaaaca gagaagatac aaaaactcca ggaagagaa tgatattgct 1260
agggggaaac ttgaagaaga gaagaagaga tccgaagagc gtcttatctc aggtccagtt 1320
tctttacaca tctctgctga agcagcaacg aacgaacaca agcaagggtg gatctgttgg 1380
tacaacagaa tgcagggcat gtactttaga ctttgagaga atgaaacaat ctgcaccgtc 1440
aacatgtgca gcatcaatct gcatagtaat tcttaaggag ctccgaaaag caagaaatca 1500
aataacacag ttggaatctt tgaaacgagc attcatgagt ttgccatcac agagccatta 1560
gtcacgttcc aaggagagga tggaaaacag agaaaaagtt gccgcctcac caaaaagtc 1620
cactgctgca ctcaatgaaa gcctgggtgg gaatgtccca agtgcaatat acagtatcca 1680
gccactgagc atcgcatct gctgttccat gtggaatact gttcaaagta gcaaaataag 1740
tatttgtttt gatattaaaa gattcaatac tgtattttct gttagcttgt gggcattttg 1800
aattatatat ttacattttt gcataaaact gcctatctac cttggacact ccagcatgct 1860
agtgaatcat gtatctttta ggctgctgtg catttctctt ggcagtgata cctccctgac 1920
atggttcata atcagggctg caatgacaga atgtggtgag cagcgtctac tgagactact 1980
aacattttgc actgtcaaaa tacttggtga ggaaaatata gctcagggtt ttgctaattg 2040
gttaatgcac cagcaagcaa aatattttat gttttggggg ttttgaaaaa tcaaagataa 2100
ttaaccaagg atcttaactg tgttcgcatt ttttatccaa gcacttagaa aacctacaat 2160
cctaattttg atgtccattg ttaagagggt gtgatagata ctattttttt tttcatattg 2220
tatagcgggt attagaaaag ttggggattt tcttgatctt tattgctgct taccattgaa 2280
acttaaccca gctgtgttcc ccaactctgt tctgcgcacg aaacagtatc tgtttgaggt 2340
ataatcctta agtggcccac acacaatgtt ttccctctta tgttatcctg gcagtaacct 2400
gtaacttgaa ttacattagc acattctgct tagctaaaat tgttaaaaat aaactttaat 2460
aaacccatgt agccctctca tttgattgac agtatttttag ttattttttg cattcttaaa 2520
gctgggcaat gtaatgatca gactccttgt ttgtctgaac acgcatcttt atacatgctt 2580
tttggtaaac caaaaacttt taaatgttct tcaggttttc taacatgctt accactgggc 2640
tactgtaaat gagacacaga ataaaattat ttctgttctt aaaaaaaaaa 2689

```

<210> 115

<211> 2478

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 399300.18

<400> 115

```

cgggcccgggtg ggctgactgg cggcaggctc gccgcggcgc ggagtccccg ctgcggggata 60
gaccgagggc catggccgcc tctcccggac ccgcggcgct tggcggcgcc ggagcagttc 120
acggctccgg ctcttcgggc ttccgcctcg actcgggact ggagatcaaa actcgtctcg 180

```

PA-0043 US

tggagcagac	gctactcccg	ctgggtttctc	agatcaccac	gcttattaat	cataaagata	240
ataccaaaaa	gtctgataaa	actctgcaag	caattcagcg	tgtaggacaa	gctgtcaact	300
tggcagttgg	aagatttggt	aaagtaggag	aagctatagc	caatgaaaac	tgggatttga	360
aagaagaaat	aaatatgtct	tgtattgaag	ctaaacaagc	aggagaaaca	attgcagcac	420
ttacagacat	aaccaacttg	aaccatctgg	aatctgatgg	gcagatcaca	atttttacag	480
acaaaacagg	agtgataaa	gctgcaagat	tacttctttc	ttcagtgaca	aaagtgttgt	540
tgctggcaga	ccgagtagtc	attaacacaga	taataacatc	aagaaataag	gttctcgcaa	600
ctatggaaag	actagagaaa	gtgaatagct	ttcaagagtt	tgtccaaata	ttcagtcaat	660
ttggaaatga	aatggtggag	tttgcacatc	tgagtggaga	tagacaaaat	gatttgaaag	720
atgaaaagaa	aaaggcaaaa	atggcagcag	ctagggcagt	tcttgaaaag	tgtacaatga	780
tgcttctcac	agcttcaaag	acatgtctga	ggcatcctaa	ctgcgaatca	gcccataaaa	840
acaaagaagg	agtatttgac	cgtatgaaag	tggcattgga	taaggtcatt	gaaattgtga	900
ctgactgtaa	accgaatgga	gagactgaca	tttcatctat	cagtattttt	actggaatta	960
aggaattcaa	gatgaatatt	gaagctcttc	gggagaatct	ttatttttcag	tccaaagaga	1020
acctttctgt	gacattggaa	gtcatcttgg	agcgtatgga	ggactttact	gattctgcct	1080
acaccagcca	tgagcacaga	gaacgcacat	tggaaactgtc	aactcaggcg	agaatggaac	1140
tgcagcagtt	aattttctgtg	tggattcaag	ctcaaagcaa	gaaaacaaaa	agcatcgctg	1200
aagaactgga	actcagtatt	ttgaaaatca	gtcacagtct	taatgaactt	aagaaagaac	1260
ttcatagtac	agcgacacag	ctggcagcag	atctattaaa	ataccatgct	gatcatgtgg	1320
ttctaaaagc	attaaaactt	actggagtag	aaggaaatct	agaagctttg	gctgaatatg	1380
cctgtaaaact	ctctgaacag	aaagagcagc	ttgttgagac	ctgtcgattg	ttacgacaca	1440
tatctgggac	agaacctctg	gaaataacct	gtatacatgc	agaggagaca	tttcagggtga	1500
ctggccaaca	gataatttct	gctgctgaaa	cattgacatt	gcattccatct	agtaaaattg	1560
ctaaagaaaa	cctagatgta	ttttgtgaag	cttgggaatc	ccaaattagt	gacatgtcaa	1620
cactgctgag	agaaatcaat	gacgtgtttg	aaggaagacg	aggagagaag	tatggctacc	1680
tttcacttcc	aaagccaatg	aagaataatg	caaacctgaa	atcattaaag	ccagacaagc	1740
ctgactctga	ggagcaagcc	aagatagcaa	agcttggact	taagctgggt	ttgctcacct	1800
ctgacgctga	ctgcgaaatt	gagaagtggg	aagatcagga	gaatgagatt	gttcaatatg	1860
gacggaacat	gtccagtatg	gcctattctc	tgtattttatt	tactagagga	gagggggccac	1920
tgaaaacttc	ccaggattta	attcatcaac	tagaggtttt	tgctgcagag	ggttttaaagc	1980
ttacttccag	tgttcaagct	ttttcaaaac	agctgaaaga	cgatgacaag	cttatgcttc	2040
tcttggaat	aaacaagcta	attcctctat	gccaccagct	ccagacagta	actaagactt	2100
ctttgcagaa	taaagtattt	ctaaaggttg	acaagtgtat	tacgaagaca	agatccatga	2160
tggctctctt	agtccaactt	ctttcacttt	gttataaaact	gctgaagaag	cttcagatgg	2220
aaaataacgg	atgggtctca	gttacaataa	aggacactat	ggatagtaaa	acttgagaag	2280
cttttggggg	cagatctctg	gaacatcatg	tgatgaagct	gacattttta	aaaatcaaat	2340
gaccccttat	cttttcagaa	attcatcaat	tttataaaga	aaacaatatt	gaaattttgc	2400
tctattttct	gatcatgaaa	ctgattgtaa	agctttttga	caactaataa	atgtcttggg	2460
aattgctaga	ttctaaaa					2478

<210> 116

<211> 2668

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 403703.1

<220>

<221> unsure

<222> 2651

<223> a, t, c, g, or other

<400> 116

ggggacgcgc	tggcggagcg	ggaggcggca	ggtaccgagt	gggatccggg	gcgagcccg	60
ggcggcgcga	cagcggcgaa	ggagagcgag	cagtcagagg	aaatgtaact	actgaaagaa	120
tgctcaaaga	ggtgcagtac	tgctagcttt	gaagatgaaa	gaagaggagc	caaggaaatgt	180
gggcagctct	agcaactgga	aaagtaggga	aatagattct	cttgagcctc	taggaagaaa	240
ttcagtctctg	ccaacatgac	ttctaataga	cagaactgat	gttgaagact	cacagaacca	300
cactgggtgag	ccgggttgag	atgactacaa	gaaaatggga	acactttttg	gtgaactgaa	360
caaaaacctt	atcaacatgg	gcttcacaag	gatgtatttt	ggagaacgaa	tagtgggaacc	420

PA-0043 US

```

agtaaatagtc attttctttt gggttatgct gtgggttcctt ggccctgcaag cccctggact 480
agttgctggt ctttgccttg ttattatttta tgtgcaacag taaaacatgg ccgaattgaa 540
ttgtttgaca tttggtagcc atatatgtaa ttgaagaagt tatatatattc actttttgac 600
aaccgaaaaa gtttgccttg tttcaaataca tgtgctggct gttttgtaag taaattttata 660
catggatgct acttaaaact aaactcttga tcataacagg gttgaatata tattttgaat 720
atacattagc ttattcaaaa ctcttgtttc actactgtga tctctgtctc ctttatacac 780
ctctatcccc atgccaaatc ttaagtaaca ccaccagaaa gtgaacaggg aaaataacag 840
gacatggaat tcaaatacaag caatatagtt cttataaaga gttccaataa aacatttcag 900
aagaaaaagt atgaaacaag ctaaaagtaa gtttacttta gaaaacttct cccactcac 960
actccccacc aaataatctc atattatttg ggaaatattt ggatttcaat tgtccctacc 1020
cagcctaaac taaggtaaat gataattagc atacactacc ttaatatattg gatgaaaatc 1080
agtaaagata gaacgttttc taaagggtcaa aaataatata tttattatta ctggggaaag 1140
ctcccagggtt aaatataact tttttaaact gtaacatttg gacctagacc tactttaata 1200
tatcatttga agtttcagac aattttggtg ctaataatta ctttttgtga gtttttaaag 1260
tctcatagcc tagttgactg caccctatgg taatgccata tttcttgta tctaacaagt 1320
tgcatatttt ttcctagaga gacattttca gtgtattttt ttttagaaat ttataatttt 1380
atagttcttt cataacactt attctgagtt ttgaaacaat gtatttccta tcttgacatg 1440
gattttttca caaaaaattt gtattttact gttgttttca ggaaaaaat cagatcattt 1500
ttctttgata tctatatcag aaagggtacaa tattaacagt ataaaaccaa atgcttaaat 1560
ttggaaactta gccaattttg ataactcttt tctaaggcta aagtcacatc agtaattggc 1620
tagccatggtt attaagggtg cttaattcag cattttcagg ttttatattg aaatacgcac 1680
ttcttttaaat attctttgaa aatggagaat ggcttttagtg atattttggg ttttgttaga 1740
gaacctaaaa tctttacact ttcactctca agattataaa ggaaaggggg gtagttaaga 1800
tttagaattc aagttaaatt tcagaaattg gggcagtcag gcatttgtat ctttggtagg 1860
gcaacaagta aaacatgtag agtgcttgct atcccacttc ataaagcttt tacccaatct 1920
tattttctaaa cctctgtgca ttcttagtgt cttctcattc tgaaacagaa aataaggaaa 1980
aacatttaac ttagttttct aaaatcagat aatcctaaac aaaaatgtta gtcagggtca 2040
ctaaaaagta ttgcacattt atataaatac agtcctttta aaatttgact tttaaaaaac 2100
aaaagacttt gtacgatatt gtgtttttat tgcgtttgca atatttttat agtagccttt 2160
atgaactcag tataagtgc agttgtttga aaagggtgtt ttattagtgc acaatagaat 2220
tgtgagggtt tcaatagatg tcatgagatt ttgtatatct acataaaata tcagtacatt 2280
tttttctaat gctactggaa attttacttt tcctttgcaa cacataaatg atatgatgta 2340
caaaataaca gctctgggtc caccagtacc taatgttgaa aacattttta aagtaatttt 2400
taatactaac tatttagtat actgtcagta ctgtacatct gcacactggg gttaataggg 2460
tatatatata attatataaa gaaataagat attttgcgtg tattctttct acatatatta 2520
ttggtcagta catcaaataa tatttggcct tgatatggga aaaaacaaac tttgcctatg 2580
taatggaaat aaaatatttt cttttatgaa atatattaga atgcagatta tactaatatc 2640
ctgaaataaa nctggtaatt taaaaaaa 2668

```

<210> 117

<211> 1034

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 405560.1

<400> 117

```

tgtgtgttcg tgggatgtac ctacccact gcaaattgag cctaattgag caaaccactc 60
cgatggtttc acctcccct gtcatagtga tgcagtgaac aaagctattt cagtgagaat 120
gaaagggaaa tttggcaagg aatatcagct tgcactattt aagtcttggg atgtcattca 180
agatgttctt gttctgtttc tagtgtaatg ttttaagcga cagaatcaga ccggaatata 240
taacgtcatg ttggaattaa gataaatata cttgtcatat ttaagaagcc acatttcaat 300
aagatatgct accactggct aaaagccaca gatttttttt ttcctgtatc catacgatca 360
actgtcagtt ggcccagca atggaaaaga acagaataga ggataatcca ataaagtga 420
atcatttggg acctcttatg taattttatc ttgtagtaga gcttccatct taatttgctt 480
tgcttacgct aatttcattg gaattttat tctcgggcat catgctagaa tgtaaataac 540
cctgttccca gaattaagag atccaggcaa ccaagcagtc tataccata gcctttggca 600
aatggcttaa atttccggc ctgtttgtcc attcttgaat acagataaga acatatgctt 660
tcctacttta taaactctta gcacgttcca cattatgtga gctgagtgac tcagagctga 720
gctggattac tggccaaagt tagcctggga agataaagag atgtttgagg tacctcacac 780

```

PA-0043 US

```

aaaattaata agctgatgtg gtcataagata tgtttccagt tgaggccctc acatgaaccc 840
ttaactgaat taaataaaaac tgggactaga aaatgttgac attttctgca cttccccaac 900
aaaaaaaaaa gaaaagaaaa gaaaagaaaa aattaattca aatgttgaca tttctagaaa 960
tacagccaaa caaggctgta ctgattctac accaaagcac aacaccgcat tgctggggcc 1020
actgacctga aact                                     1034

```

```

<210> 118
<211> 2213
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 413486.1

```

```

<400> 118
ttggttgcac ttacaccggt acttaagcgc ggaccggcgt gtccttggac ttagagagtg 60
gggacgtccg gcttcgggagc gggagtgttc gttgtgccag cgactaaaaa gagaattaaa 120
tatgggtgat gttgagaaaag gcaagaagat ttttattatg aagtgttccc agtgccacac 180
cgttgaaaaag ggagccaagc acaagactgg gccaaatctc catggtctct tggggcgga 240
gacaggtcag gcccctggat actcttacac agccgccaat aagaacaaag gcatcatctg 300
gggagaggat acactgatgg agtatttggg gaatcccaag aagtacatcc ctggaacaaa 360
aatgatcttt gtcggcatta agaagaagga agaaagggca gacttaatag cttatctcaa 420
aaaagctact aatgagtaat aattggccac tgccttattt attacaaaac agaaatgtct 480
catgactttt ttatgtgtac catcctttaa tagatctcat acaccagaat tcagatcatg 540
aatgactgac agaataatatt gttgggcagt cctgatttaa aactaagact ggcttgtggt 600
taaatgaata tggttcagttt ttgaatttta atagtaactc caattcagta aatgggtatca 660
ctgtttaccc cttttaaaga tatgattaga ctctgtagt aatgttcaac tttcacaaa 720
tggttatgtg aatatattta aatactgggg agattgggtt tatatttaga tttatataac 780
gattcacctg tggtttgtgt tcatgttcat ttgcctctta aaggcaaggg ttgaagataa 900
ataaggtagc aatgtctata gttttggcct taactatgcc aatctaatta taattccctg 960
tatttaaaat ggtttctttt acttattgaa aggcatttta gtgtggttta tgtgtaatat 1020
taaagattat tcaacacctc tcacatctta cagatctata aggtcacatg cttttaaaat 1080
agtagcaagt taaacttcac tcttgaattc tttacaatct aagtcaaaact aagttataat 1140
ttaggattgt ctttaaacag ccattcagaa acaaaactgt agaactgtgt atttgattgg 1200
gaatggtgct tttgccaaact taaaaggatt aaagtaacgg agatatacac aaattttaaa 1260
attatgtgtg atcacaagac taaagataat taaaaagaaa accacagatc atgacttttt 1320
gactgtgctt gatttcatga ctgatgcaca aattttaatg attaaaaagt gcaggagccc 1380
taaatgtcag tgcagcagcc ctaaagtgtc gtgcagcagt gtttaaccagt catggtgcta 1440
gattgtttac ttgggttttct aggactgcct caactagaat aacacttcac taattgactc 1500
ttagtttctt tgctcagatt gagaactgca gcatttatgc cagacatgga cagaggaatg 1560
cctgtggtca tagttttgtg atgtgtaaca gtgtataatt acatactgaa ttatttcatg 1620
catagtctgt gccatacaca ttagagtag tagcttgaga ttttatggag atggtgagca 1680
caaggtaagt cataaagaat aatgagaaaa taaatctatg ctggtgcagc tgagaactgt 1740
atctttgtgg gacagtgaga agactgagaa gatgtgaatc catggtctca aaggtgatag 1800
ggacgattag ataggtgttt taaggcctga aagcaattta taacattatg agtcttattt 1860
ttatttatag aaatgtggaa agcttgctgt aattcatatt tgaagtccca gtctgagttc 1920
tggtggggaa tttaaaaatg catcctggaa atcctttaaa gatttcagac tttgaaaggc 1980
cttgtagcag aggacttggg gactgtataa agttagtggt attcaggga agttagcaa 2040
gtagcttaca aggggacaat tctggactaa tgagaaagac ctgaagtga ggctagagag 2100
ttgatttttt ttttttttgg gcaccctgga aatgatacgg ggaacatttt aaggtaggta 2160
caaaaatttg ttcaaccttc caacttggcg atttttggcg ttgagtttgt ttt 2213

```

```

<210> 119
<211> 1261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 426109.1

```

PA-0043 US

<400> 119

```

gccgggcacc ggggcggcgg gttggtctac gctgtgcgcg ggggacgtcg gaggcagcgg 60
ggagcggagc ggggcggcgg gggcctctcc agggccgcag cggcagcagt tgggcccccc 120
gccccggcgg ggcggaccga gaacgcagga agggggccgg ggggacccgc ccccgccgg 180
ccgcagccat gaactccaac gtggagaacc tccccccgca catcatccgc ctggtgtaca 240
aggaggtgac gacactgacc gcagaccac cccgatggcat caaggtcttt cccaacgagg 300
aggacctcac cgacctccag gtaccatcgc agggccctga ggggacccca tatgctggag 360
gtctgttccg catgaaactc ctgctgggga aggacttccc tgcctcccca cccaagggt 420
acttctctgac caagatcttc caccgaacg tgggcgcaa tggcgagatc tgcgtcaacg 480
tgctcaagag ggactggacg gctgagctgg gcatccgaca cgtactgctg accatcaagt 540
gcctgctgat ccacctaac ccgagtctg cactcaacga ggaggcgggc cgcctgctct 600
tggaagaacta cgaggagtat gcagctcggg cccgtctgct cacagagatc cagggggcg 660
ccggcggggc cagcggcagg gccgaagccg gtcgggccct ggccagtggc actgaagctt 720
cctccaccga ccttggggcc ccagggggcc cgggaggggc tgagggtccc atggccaaga 780
agcatgctgg cgagcgcgat aagaagctgg cggccaagaa aaagacggac aagaagcggg 840
cgctgcgggc gctgcggcgg ctgtagtggg ctctcttccc ccttccaccg tgaccccaac 900
ctctcctgtc cctccctccc aactctgtct ctaagttatt taaattatgg ctggggtcgg 960
ggaggggtaca gggggcactg ggacctggat ttgtttttct aaataaagtt ggaaaagcag 1020
cttctgtgtc tcacagatgc ccagggaccg ctgcatgggt ccatgtggct ctgggagttt 1080
ggctccccct cacagggcct ggttccttgc aaagcctcat ggactgcagc agtgggtcca 1140
tctagctcac cagccttgct gtttaggtt tgggtccacc tctttgtctg tgggggtaga 1200
gcggtcacaa cccctctttg gagtgcagatt tccaatctaa aatggggcga ggacctggag 1260
c 1261

```

<210> 120

<211> 1870

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 470468.26

<400> 120

```

agggtacaca cagtgcagct gccagctcca cattccccgac caccggggcca gggctggttc 60
cacgctgtca tttctctccg ctggccccag ccgcggggcc accgccagac agacagaccg 120
gggactctgc ctggcggcgt gaccttgggt tagtctctaga gccgcttcta gcccggtttc 180
ctccgccccg ggttaggacc acgtgggtgg ttccctcatt cgagtgtctc ggcgcacaga 240
cccgcgcccc gccgtctgcg agcctcccca gagccgtccc ttctgtccggc cctggagcat 300
tgcgtttgtc gccggtgtcg cagtgcgagg atggcgccgc ggggtgtagc gctctctgcg 360
caggccgagt gggcccagag aagcgaggaa ctccgcagct cgtcgacacg tctcgtctcc 420
tgtcccaatt cagggtctgg tgagggtgact cgcggtcgcg ggtgactcgc cggcaggaca 480
ctgcctggaa cgctggagc gcctcccact gcagacgtct gtccgcctcc agccgtctct 540
ctctgacggg tccgtgctca gttggcggaa tggcgggccac gggagccaat gcagagaaag 600
ctgaaagtca caatgattgc cccgtcagac ttttaaacc aaacatagca aaaatgaaag 660
aagatattct ctatcatttc aatctcacca cttagagaca caatttccca gccttgtttg 720
gagatgtgaa gtttgtgtgt gttggtggaa gccctcccgc gatgaaagcc ttcatcaggt 780
gcgttggtgc agagctgggc cttagactgc caggtagaga ctatcccaac atctgtgcgg 840
gaactgaccg ctatgccatg tataaagtag gaccggtgct gtctgtcagt catggtatgg 900
gcattccttc tatctcaatc atgttgcatg agctcataaa gctgctgtac tatgcccgg 960
gctccaacgt cactatcacc cgcattggca cttctgggtg gataggctct gagccccggc 1020
ctgtggtcat aacagagcag gcagtgata cctgcttcaa ggcagagttt gagcagattg 1080
tcctggggaa ggggtcatc cggaaaacgg accttaacaa gaagctggtg caggagctgt 1140
tgctgtgttc tgcagagctg agcgagttca ccacagtggg ggggaacacc atgtgcacct 1200
tgacttcta tgaagggcaa ggcggtctgt atggggctct ctgctcctac acggagaagg 1260
acaagcaggc gtatctggag gcagcctatg cagccggcgt ccgcaatatc gagatggagt 1320
cctcggtgtt tgccgccatg tgcagcgctt cgggcctcca agcggccgtg gtgtgtgtca 1380
ccctcctgaa ccgcctggaa ggggaccaga tcagcagccc tcgcaatgtg ctacgcagat 1440
accagcagag gccgcagcgg ctggtgagct acttcatcaa gaagaaactg agcaaggcct 1500
gagcgtgcc ctgcacctcc gcagacctgc tgtgatgact tgccattaaa agcattgtcc 1560
aaaatccccct gttgtgtgga ctttgagcac actttacaca agaattctaga aaatcagatc 1620
gcgattaaga gacagagaat cttggattaa ccgcattggga gatgttcttc cttttgaagt 1680

```


PA-0043 US

```

ttcattggag cattttcaat gatgttagcc tgatttgggg tttcttcaag aacattctac 1740
caaatttttg tactatttct agggaaattt ttcagacttt aaaattctaa tggtagtcag 1800
atttcatgtc actaaacaag aaatctgaca atagtgccag ataactaagt tcttgatcac 1860
ttactactta                                     1870

```

```

<210> 121
<211> 2206
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<223> Incyte ID No: 474629.4

```

```

<220>
<221> unsure
<222> 486
<223> a, t, c, g, or other

```

```

<400> 121
gccgcgcgcg cgcgcgcgcg gccctctctg cagcagctcc ggccgcaccc tccgtggccg 60
gcgttctccc gggcggggcg gggaaccag ggcggcctga aggggcgcgc gcggggggcg 120
agccgagcgc tccttgggct gcgactcagg cttccgggcg ttctgggctg tcccatggg 180
gctggccttg cggcgccttg gcgctctgag aattgtcagc tgctgttcca aagggcacac 240
gccagaggga ttttggaat tcctgggaga aagttgcctt tgtgagaaag ctggaacata 300
tttcctttca agttccaatc tcttaagttt tccataagga acatcgaaga aatcatgaac 360
aactttgggt aatgaagcag ttgaaactgc cacttcctcg aatgaagggt ttaactgcca 420
aggacattct ggaccagaaa attaatgaag tttcttactt ctgatgataa ggatgccttc 480
tatgtngtgc agacctgggc gcaaaaggga accaaaattt cttaaagaaac atctgagggt 540
gggttaaaag ctctccctcg gtgtcacccc ctttttatgc agtcaaaatg taattgatag 600
caaagccatc gtgaagaccc ttgctgcttt accgggacag gatttgactg tgctagcaag 660
actgaaatac agttggtgca gactcttggg ggggtgcctc agagaggatt atctatggca 720
aatcctttgt aaaacaagta tctcaaatta agtatgctgc taataatgga gtccagatgg 780
atgacttttt gatagtgaag ttgagcttga ctgaaagttt gccagaggca cattcccaaa 840
ggcaaaagtt tgggttttgc ggattgcccc ctgatgattc caaagcagtc tgcgtctca 900
gtgtgaaatt cgggtgccacg ctcagaacca gcaggctcct tttggaacgg gcgaaagagc 960
taaataatga tgttgttggg gtcagcttcc atgtaggaag cggctgtacc gatcctgaga 1020
ccttcgtgca ggcaatctct gatgcccgct gtgtttttga catgggggct gaggttgggt 1080
ttcagcatgt attctgcttg atattggcgg tggccatttc ctgggatctt gagggatgtt 1140
gaaacttaaa tttgaagaga tcaccggcgt aatcaacca gcgttggaca aatactttcc 1200
gtcagactct ggagtggaga atcatagctg gagggccggg cagatactat gttgcatcag 1260
ctttcacgct ttgcagttaa tatcattgcc aagaaaattg tattaagga acagacgggg 1320
ctctgatgaa cgaagatgag tcgagtggag cagacctttt atgtattatg tgaatgatgg 1380
cgtctatgga tcatttaatt gcatactcta tgaccacgca catgtaaagc cccttctgca 1440
aaagagacct aaaaccagat gagaagtatt attcatccag catatgggga ccaacatgtg 1500
atgggcctcg atcggaattg ttgagcgctg tgacctgcct gaaatggcat gtgggtgatt 1560
ggattggtct ttggaaaaat tgggggctaa cactggtggc tgctgcctct acgttcaatg 1620
gcttccagag ggccgaagaa ctaataaggt gatgtcaggg ccggcgtggc aactccatgc 1680
agcaattcca tgaaccccgga cttccaccc gaagtaggag ggaaccagga tgccagcacc 1740
ctgccctgtg tcttgtgccc tgggagagtt gggatgaaac gcacacagag cagcctgtgc 1800
ttcggcctag tattaatgt gtagatagca ctctgtgtag ctgttaactg caagtcttag 1860
cttgaattaa agggatttgg ggggaccatt gttacttaat ttactgcgta gttttgaaat 1920
gtctttgtaa gagtaggggt cgcccatgac tgcagccatc atggaacgac taggatattg 1980
gtcacacttt atctgtgctc tccatggaa actaattgaa aaatttgggt tattttgggt 2040
tttttattca ctcttcagga cactgactc caagagtgcc cctacagctg ctgaacaaag 2100
catttgtagc ttgtacaat ggcagaatgg gccaaaagct ttagtgttgt gacctgtttt 2160
taaaaataag ttatcttggg aataattagg caaaaaaaa aaaaaa 2206

```

```

<210> 122
<211> 1656
<212> DNA
<213> Homo sapiens

```

PA-0043 US

<220>

<221> misc_feature

<223> Incyte ID No: 903446.9

<400> 122

```

ggcttggcgg gagcttccag tcgctcgaga gcgagagcg gcaccatggc cccgcggggg 60
cgccggcggc cccggcctca caggtctgag agcgcaagac gttcaaagaa cactttagaa 120
agaacacatt ccatgaaaga taaagctggt caaaagtgc agcctattga cgtgttcgac 180
tttcttgata attctgatgt ctcaagcatt ggcaggctgg gtgaaaatga gaaagatgaa 240
gaaacttatg agacctttga tcctccttta catagcacag ctatatatgc tgatgaagaa 300
gaattctcca aacattgtgg actgtctctc tcttcaactc ctccaggaaa agaagcaaaa 360
agaagtccag acacttctgg aaatgaagca agtgaaatcg aatctgtaaa aattagtgc 420
aaaaagccag gaagaaagct caggcccatt agtgatgact ctgaaagcat tgaagaaagt 480
gatacaagga gaaaagttaa atcagcagag aaaataagta cacaacgtca tgaggttatt 540
cgaaccacag cgtcttcaga actttcagag aaaccagctg agtctgtcac ttctaaaaag 600
acaggacccc ttagtgccca gccctctgtt gaaaaagaga acttggcaat agaaagtcaa 660
tcgaaaactc agaaaaaagg gaagatatct catgacaaaa ggaagaaatc aagaagtaaa 720
gccataggct cagatacttc tgacattgtg cacatttggg gtccagaagg aatgaaaacc 780
agtgcacatc aggagttgaa tattgttttg cctgaatttg agaaaaccca cctagagcat 840
caacaaagaa tagaatctaa agtttgtaag gcagccatcg ccacatttta tgttaatgtt 900
aaagaacaat tcatacaaat gcttaaaaga agccagatgt tgacaaatct gaaaaggaag 960
aatgctaaga tgatttcaga tatcgaaaag aaaaggcagc gtatgattga agtccaggat 1020
gaactgcttc ggtagagcc acagctgaaa caactacaaa caaaatatga tgaacttaaa 1080
gagagaaagt cttcccttag gaatgcagca tatttcttat ctaatttaaa acagctttat 1140
caagattatt cagatgttca agctcaagaa ccaaacgtaa aggaaacgta tgattcatcc 1200
agccttccag ctctgtttatt taaagcaaga acacttctgg gagccgaaag ccatctgcga 1260
aatatcaacc atcagttaga gaagctcctt gaccagggat gagaagagca gtctactaaa 1320
atgtgcctat aggaagacta gtctcatgct gttaccttct gaaactgtac cttataaat 1380
caattgtttt gcaaagaagt tatggcctac ttagaatcta aaatttgtaa ttcaaatata 1440
atggctgtga acaatgttaa atagcatcag tttgtccaat agttttaaag gccataatca 1500
tcttttctgg ttaatatctt gagtaatttt aaaatgttga caccttaatc ggtcccagg 1560
atgagctata ataaacttgt aaaattaagt tgatgtgaac ataattttga ttaattaata 1620
agggcatttc tcctgaaatt tacaccaaag ctaatt 1656

```

<210> 123

<211> 2593

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 086533.6

<400> 123

```

tgaggggaaa tccctgtgtg catatgtaga aatgtgttta agctcagtga atttaagcag 60
cttttttggc acagttgaat tgaaggaaat aataagacat aaatctaaga cgttggttaa 120
tgtcaggttt tegtacattg agatctttga aagaagttgt tttgtgcctt cttaggtaag 180
cggaattgat agactttaaa atttctatgt gaacataaaa ccattggttt aaaaagctaa 240
aagtgcacat tttatcactt gctcccaaaa gtttttccaa agtcaagaat aattatagaa 300
ctatgagagt caggatggca aaatctgtca tccattctca tgggtgggta gggctgagaa 360
aaaaatgtga tccactctca tgggtgggta gagctgagag atagagaggc ttaatttggg 420
tttacctatt ggctctgagg atccttgacc aaatttttat gaactttaat ttcttaggg 480
accagtgga gaaaggatat aggcaactta ggacctttga gcagagctcg ggactcaca 540
ggccattgat tgaccagagc aagttggaaa ggttttgcaa tgtgctgctt ggggacttta 600
tacattagcc aacagctata cttttgggat tattaacgtt tatgtctgtg aagatattta 660
accaggaata tgttttgttt tcttttgaa agtttagccc catatggggg ttggcaggca 720
gcagagaggc ccctttcaag gtgttcgggt aaagaactca gtgaaggaac tcctgttgca 780
catccgaagt cataaacaga aggccttctg ccaagctgtg gatgatttta agacacaagg 840
tgtgaacata gaacagttca gagaattgaa gaacacagta tcatacagt ggaaaaggaa 900
agggccgat tegtgtctg atggacctgc ttgcaaaagg ccagctctgt tgcattccca 960
atttttgaca ccacctcaaa caccaacgcc cggggagagc atggaagatg ttcatctcaa 1020
tgaacccaaa caggagagca gtgctgatct gcttcagaac attatcaaca ttaagaatga 1080

```

PA-0043 US

```

atgcagcccc gtttccctga acacagttca agttagctgg ctgaaccccg tggtaggtccc 1140
tcagagctcc cccgcagagc agtgtcagga cttccatgga gggcaggtct tttctccacc 1200
tcagaaatgc caaccattcc aagtcagggg ctcaccaaaa atgatagacc aggccttccct 1260
gtaccagtat tctccacaga accagcatgt agagcagcag ccacactaca cccacaaacc 1320
aactctggaa tacagtcctt ttcccatacc tcccagctcc cccgcttatg aaccaaaccct 1380
ctttgatggg ccagaatcac agttttgccc aaaccaaagc ttagtttccc ttcttggtga 1440
tcaaagggaa tctgagaata ttgctaatac catgcagact tcctccagtg ttcagcagca 1500
aaatgatgct cacttgcaca gcttcagcat gatgccagc agcgccctgt aggccatggt 1560
ggggcacgag atggcctctg actcttcaaa cacttcaact ccattctcaa acatgggaaa 1620
tccaatgaac accacacagt tagggaaatc actttttcag tggcaggtgg agcaggaaga 1680
aagcaaattg gcaaataatt cccaagacca gtttctttca aaggatgcag atggtgacac 1740
gttccttcat attgctgttg cccaagggag aagggcactt tcctatgttc ttgcaagaaa 1800
gatgaatgca cttcacatgc tggatattaa agagcacaat ggacagagtg cttttcaggt 1860
ggcagtggtc gccaatcagc atctcattgt gcaggatctg gtgaacatcg gggcacaggt 1920
gaacaccaca gactgctggg gaagaacacc tctgcatgtg tgtgctgaga agggccactc 1980
ccaggtgctt caggcgattc agaaggagc agtgggaagt aatcagtttg tggatcttga 2040
ggcaactaac tatgatggcc tgactcccct tcaactgtgc gtcataagccc acaatgctgt 2100
ggtccatgaa ctccagagaa atcaacagcc tcattcacct gaagttcagg agcttttact 2160
gaagaataag agtctggttg ataccattaa gtgcctaatt caaatgggag cagcgggtga 2220
agcgaaggct tacaatggca acactgccct ccactgttgc gccagcttgc agtatcggtt 2280
gacacaatta gatgctgtcc cctgttgcag gaggaaggga gcagacccaa gtactcgga 2340
cttgagaaac gaacagccag tgcatttggg tcccgatggc cctgtgggag aacagatccg 2400
acgtatcctg aagggaaagt ccattcagca gagagctcca ccgtattagc tccattagct 2460
tgtagcctgg ctagcaacac tcaactgtcag ttaggcagtc ctgatgtatc tgtacataga 2520
ccatttgcct tatattggca aatctaagtt gtttctatga cacaacata tttagttcac 2580
tattatatac agt 2593

```

<210> 124

<211> 1226

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1092427.6

<400> 124

```

cgctcccgcg tccccggcgg gcagctccac cccaatcccg gcggccaccc ggcagccgcc 60
ccgttcacca aacaaggcag gcaagttgtg cgctccaagg tgccgcagga gaccagagc 120
ggcggagggt ctaggctgca gggtcaccag aagcagcagc tgccaggggt caatgtctgt 180
ggagggcggt gctgtcatgg ctggagtaag gccctggct cccagaggtg caccaaaccct 240
agctgtgttc cgccatgtca gaatggaggg atgtgtctcc ggccacaact ctgtgtgtgt 300
aaaccaggga ccaagggcaa agcctgtgaa acaatagctg cccaggacac ctctgcacca 360
gtctttggag ggcagagtc tggggctgct tcctcggtgg gccctcctga gcaagcagca 420
aagcatactt catctaagaa ggcagacact ctaccaagag tcagccctgt ggcccagatg 480
accttaaccc tcaagccgaa gccttcagtg ggaactcccc agcagataca ttctcaagtg 540
actcctcttt cttcccagag tgtgggtgatt caccatggcc agacccagga atacgtgctc 600
aagcccaagt actttccagc ccagaagggg atttcaggag agcagtcac tgaaggttct 660
ttccctttta gatatgtgca ggatcaagtt gcggcacctt ttcagctgag taaccacact 720
ggccgcatca aggtggtctt tactccgagc atctgtaaag tgacctgcac caagggcagc 780
tgtcagaaca gctgtgagaa ggggaacacc accactctca ttagtgagaa tggatcatgt 840
gccgacaccc tgacggccac gaacttccga gtggttaatt gccatcttcc atgtatgaat 900
ggtggccagt gcagttcaag ggacaaatgt cagtgccttc caaatttcac agggaaactt 960
tgtcagatcc cagtccatgg tgccagcgtg cctaaacttt atcagcattc ccagcagcca 1020
ggcaaggcat tggggacgca tgtcatccat tcaacacata ccattgcctc tgaccgtgac 1080
tagccagcaa ggagtcгаа tgaaatttcc tcctaacata gtcaatatcc atgtgaaaca 1140
tcctcctgaa gcttccgtcc agatacatca ggtttcaaga attgatggcc caacaggcca 1200
gaagacaaaa gaagctcaac caggcc 1226

```

<210> 125

<211> 2291

<212> DNA

PA-0043 US

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1094829.54

<400> 125

```

ctccgcgctc cggcggcgaa ggaaagaacg gactctgata atagaagcct agtaaagtag 60
tacacctctc tcctttctgt aggcataaag aacaaactcc ttttctcgtc acagctacgc 120
cctgggcata aacggttggg gcgtcaaagg gagggaggga agggagcggg cgggaggaga 180
cgggtcacgtg gtcgcggcgg aaggatgcgt ctgtgctgcg tcccataga gacgaagtct 240
ataaagggcc ggcgggcggc cacggcagcc atttctactt tgcccgcca cagatgtagt 300
tttctctgcg cgtgtgcgtt ttccctctc cccgccctca ggggtccacg ccaccatggc 360
gtattagggg cagcagtgcc tgcggcagca ttggcctttg cagcggcggc agcagcacca 420
ggctctgcag cggcaacccc cagcggctta agccatggcg tgagtaccgg ggcgggtcgt 480
ccagctgtgc tcctggggcc ggcgcggtt ttggattggt ggggtgcggc ctggggccag 540
ggcggtgccg ccaaggggga agcgatttaa cgagcggccg ggacgcgtgg tctttgcttg 600
ggtgtccccg agacgctcgc gtgcctggga tcgggaaaag cgtagtcggg tgcccgact 660
gcttccccag gagccctaca gccctcggac cccgagcccc gcaagggtccc aggggtcttg 720
gctgttgccc caggaacgt gcaggaacca agatggcggc ggcagggcgg cggcgcgggc 780
gtgagtcaag ggcggcggtt cggcgggcgt aagaatcccc tgggtctcgt gagcgtccat 840
acggagcgct ttctctttgg cggcggttgg aagaaatccc tgggtctcgt gagcgtccat 900
tttgtggaac ctgagttgca agcagggagg ggcaaataca actgccctgt tcccgattct 960
ctagatggcc gatctagaga agtcccgct cataagtga aggatgaaat tctcagaaca 1020
gctaacctct aatgggagtt ggcttctgat tctcattcag gcttctcacg gcattcagca 1080
gcagcgttgc tgaaccgac aaagacacct tcgaattaag cacattcctc gattccagca 1140
aagcacgcga acatgaccga aatgagcttc ctgagcagcg aggtgttggg gggggacttg 1200
atgtccccct tcgaccgcgc ggggtttggg gctgaagaaa gcctaggtct cttagatgat 1260
tacctggagg tggccaagca cttcaaacct catgggttct ccagcgacaa ggctaaggcg 1320
ggctcctccg aatggctggc tgtggatggg ttggtcagtc cctccaacaa cagcaaggag 1380
gatgccttct cgggacaga ttggatgttg gagaaaatgg atttgaagga gttcgacttg 1440
gatgccttct tgggtataga tgacctggaa accatgccag atgaccttct gaccacgttg 1500
gatgacactt gtgatctctt tgcccccta gtccaggaga ctaataagca gccccccag 1560
acggtgaacc caattggcca tctcccagaa agtttaacaa aacccgacca gggtgcccc 1620
ttcaccttct tacaacctct tcccccttcc ccaggggtcc tgtcctccac tccagatcat 1680
tccttttagt tagagctggg cagtgaagtg gatatactg aaggagatag gaagccagac 1740
tacactgctt acgttgccat gatcctcag tgcataaagg aggaagacac cccttcagat 1800
aatgatagtg gcactctgat gagcccagag tcctatctgg ggtctcctca gcacagccc 1860
tctaccaggg gctctccaaa taggagcctc ccattctccag gtgttctctg tgggtctgcc 1920
cgtcccaaac cttacgatcc tcctggagag aagatggtag cagcaaaagt aaagggtgag 1980
aaactggata agaagctgaa aaaaatggag caaaacaaga cagcagccac taggtaccgc 2040
cagaagaaga gggcggagca ggaggctctt actggtgagt gcaaagagct ggaaaagaag 2100
aacgaggctc taaaagagag ggcgattcc ctggccaagg agatccagta cctgaaagat 2160
ttgatagaag aggtccgcaa ggcaaggggg aagaaaaggg tcccctagtt gaggatagtc 2220
aggagcgta atgtgcttgt acatagagtg ctgtagctgt gtgttccaat aaattatttt 2280
gtagggaag t 2291

```

<210> 126

<211> 1505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1138158.1

<220>

<221> unsure

<222> 1166, 1168-1194

<223> a, t, c, g, or other

<400> 126

PA-0043 US

```

aaatatatat attctttttt taaattaaca gtgctaattgt tattgggtgtc ttcactggat 60
gtatttgact gctgtggact tgagttggga ggggaatgtt cccactcaga tcctgacagg 120
gaagaggagg agatgagaga ctctggcatg atcttttttt tgtcccactt ggtggggcca 180
gggtcctctc cctgcccag gaatgtgcaa ggccaggcca tgggggcaaa tatgaccag 240
ttttgggaac accgacaaac ccagccctgg cgctgagcct ctctaccca ggtagacgg 300
acagaaagac agatcacagg tacaggatg aggacaccgg ctctgaccag gagtttgggg 360
agcttcagga cattgctgtg ctttggggat tccctccaca tgctgcacgc gcatctcgcc 420
cccaggggca ctgctggaa gattcaggag cctggggggc cttcgcttac tctcacctgc 480
ttctgagttg ccaggagac cactggcaga tgtcccgcg aagagaagag acacattgtt 540
ggaagaagca gccatgaca gctccccttc ctgggactcg cctcactct cttcctgctc 600
cccttcctgg ggtagcagct aaaaggacct atgtcctcac accattgaaa ccactagttc 660
tgtcccccca ggagacctgg ttgtgtgtgt gtgagtgggt gaccttctc catcccctgg 720
tccttcctct cccttcctga ggcacagaga gacaggggcag gatccacgtg cccattgtgg 780
aggcagagaa aagagaaagt gttttatata cggtacttat ttaatatccc tttttaatta 840
gaaattaaaa cagttaattt aattaaagag taggggtttt tttcagtatt cttgggtta 900
atttaatttc aactatttat gagatgtatc ttttgctctc tcttgctctc ttatttgtac 960
cgggtttttg atataaaatt catgtttcca atctctctct cctgatcgg tgacagtcac 1020
tagcttatct tgaacagata tttaattttg ctaacactca gctctgcct ccccgatccc 1080
ctggctcccc agcacacatt ccttgaaat aaggtttcaa tatacatcta catactatat 1140
atatatttgg caacttgat ttgtgngnnn nnnnnnnnnn nnnnnnnnnn nnnnatatgt 1200
gattctgata aaatagacat tgctattctg ttttttatat gtaaaaacaa aacaagaaaa 1260
aatagagaat tctacatact aaatctctct ccttttttaa ttttaatat tgttatcatt 1320
tattttattg tgctactgtt tatccgtaat aattgtgggg aaaagatatt aacatcacgt 1380
ctttgtctct agtgcagttt ttcgagatat tccgtagtac atatttattt ttaacaacg 1440
acaagaagt acagatatat cttaaaaaaa aaaagcatt tggattataa gaatttaatt 1500
ctgaa 1505

```

<210> 127

<211> 4855

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1326983.14

<220>

<221> unsure

<222> 4800, 4805, 4813, 4816-4817, 4822-4823, 4831-4832, 4835, 4837, 4839-4840, 4849-4850

<223> a, t, c, g, or other

<400> 127

```

cgacgccgcc gccttagaac gcctttccag tactgctagc agcagcccga ccacgcgtta 60
ccgcacgctc gcgcctttcc cttgacacgg cggacgccgg gaggattggg gcggcaattt 120
gtcttttctt tttttattaa aattattttt cctgcctgtt gttggatttg gggaaatttt 180
ttgtttgttt tttatgattt gtattgactg agagaaaccc actgaagacg tctgcgtgag 240
aatagagacc accgagtttc gcaggccgac tcgcgggggc gctgcaccca ccgccaagga 300
caaaaggagc ccagcgctac tagctgcacc cgattcctcc cagtgccttag catgaagaag 360
gcccgaagtg ggacgattca gtatttcccc gggatgaaga cagcagcaag ctacagttcc 420
aacagcgact tcaactactc ctaccccacc aagcaagctg ctctgaaaag ccattatgca 480
gatgtagatc ctgaaaacca gaacttttta cttgaatcga atttggggaa gaagaagtat 540
gaaacagaat ttcattccagg tactacttcc tttggaatgt cagtatttaa tctgagcaat 600
gcgattgttg gcagtggaa ccttgggctt tcttatgcca tggctaatac tggaatgctc 660
ttttataatt ctctgacatt tgtgtcaata ttccctgta ttctgttcat ctcttttgaa 720
gactgccaat gaaggagggt ctttattata tgaccaattg ggatatacag gcatttggac 780
ttagttggaa agcttgcagc catcctggat caattacaat gcagaacatt ggagctatgt 840
caagctacct cttcatagtg aaatatgagt tgcctttggg gatccaggca ttaacgaaca 900
ttgaagataa aactggattg tggatctga acgggaacta tttgggtctg ttggtgtcat 960
tgggtggcat tcttccttgg cgctgtttag aaatttagga tatttgggat ataccagtgg 1020
cctttccttg ttgtgtatgg tgttctttct gattgtgggt atttgcaaga aatttcagg 1080
tccgtgtcct gtggaagctg ctttgataat taacgaaaca ataaacacca ccttaacaca 1140

```

PA-0043 US

gccaacagct	cttgtagctg	ctttgtcaca	taacgtgact	gaaaatgact	cttgcagacc	1200
tcactatddd	atdddcaact	cacagactgt	ctatgctgtg	ccaattctga	tcttttcatt	1260
tgtctgtcat	cctgctgttc	ttcccatcta	tgaagaactg	aaagaccgca	gccgtagaag	1320
aatgatgaat	gtgtccaaga	tttcattdtt	tgtatgtttt	ctcatgtatc	tgcttgccgc	1380
cctcttttga	tacctaacat	tttacgaaca	tgttgagtca	gaattgcttc	atacctactc	1440
ttctatcttg	ggaactgata	ttcttctctc	cattgtccgt	ctggctgtgt	taatggctgt	1500
gaccctgaca	gtaccagtag	ttattdtccc	aatccggagt	tctgtaactc	acttggtgtg	1560
tgcatacaaaa	gatttcagtt	gggtggcgtca	tagtctcatt	acagtgtcta	tcttggcatt	1620
taccaattdta	cttgtcatct	ttgtcccaac	tattagggat	atctttgggt	ttattgggtgc	1680
atctgcagct	tctatgttga	ttcttattct	tccttctgcc	ttctatatca	agttgggtgaa	1740
gaaagaacct	atgaaactcg	tacaaaagat	tggggctttg	ttcttctgtg	taagtgggtgt	1800
actgggtgatg	accggaagca	tggccttgat	tgttttggat	tgggtacaca	atgcacctgg	1860
aggtggccat	taattggcac	cactcaaact	caaactcagt	ccatctgatg	ccagtgttga	1920
gtaaaactcaa	ctactatgaa	attdcaccta	atgttttcag	tttcaacttc	ttttgaagtgt	1980
cagattcctc	gctggttctt	ctgagtgcag	aataagtga	cttttttgtt	ttgttttgtt	2040
tttttaagaa	acttatctgt	atgttagaaa	tggatatgaa	caacaaaacc	acgagtctcg	2100
ggttaaggga	agtgaacaatt	ttattccatt	ccagagaatg	gacaaactct	taacttttat	2160
caagccacat	gcttggctgt	gtcattgttt	aacttggata	ttttatgatt	ttacttgaat	2220
gtgcctaattg	gaaccatttg	atgtgagaaa	caattctttt	taatttacag	caaaatattg	2280
aataaccatt	gacaaaaaca	ctattattdt	ttgtaccaaa	aatacttaaa	gacctcagaa	2340
gcactcttdt	acttdttaaga	aattgtcttt	ttgaacttta	ttcagaagca	gttatcaata	2400
aattccataa	aataatgtca	ttgggtattta	aaaatgaata	ttaatataat	gaaatgggtt	2460
gccttdtttgt	aggcataata	agccaaatac	tttdtttacc	aaaataattd	ttagagaaaa	2520
tgatgtaatg	aaaaattgta	ccatgaatta	ggagcatagt	tttdtccatt	taaactgcac	2580
cattacttaa	aagatgattg	attattgcta	taccaaactc	gatgaactct	gttcatcact	2640
tttcttctct	gtccccaac	aatttgggtc	attcagactg	aaatgtttgt	gtcttcaact	2700
tattagaatg	gaagataatg	cagatatttc	tgtgggaaat	aaaataacta	attdttgaggt	2760
accaaaatgt	gcaattgggt	aaaacagggt	ttattcagtt	gcatctgtct	ccagtgttgt	2820
attgacagct	ctgggtcttd	tttdtggcca	gcccttdttt	gacattgctt	ccagcagttg	2880
aaaatgggca	ttttagtgga	ataggccaaa	attattgtgt	ccagagagta	cacttdtttca	2940
aaatgtctac	ctactggaag	tgtgaattac	ttgacaatgt	atggcttagt	tgtgttcatg	3000
tttdgtctac	agtagagggt	taatccacag	gttacaccta	tgtttgatat	gatataagtt	3060
ctctttgcgt	aggccactgg	gttdtctcat	cagtaagctt	tataaaaact	catttgcact	3120
ggactgtcat	ctcattcttg	tacaacgtag	aattacttgt	ttacatccaa	caaattgggtta	3180
gctaggggaaa	acagtgcaaa	ctgagtgtta	gtagtcattd	tgggtccaaact	gcatgtcaac	3240
ccttdccattt	caatcccagt	tagaaatgaa	aataattact	ttgaaacttg	gctttaagag	3300
cacattttatc	gtactgtcaca	gtgtatgggt	aatatattat	taaataatgt	ggtagtctgc	3360
tcacaggga	taatgtctaa	aatctaatat	acataattcc	attaagtgggt	tgaagggaagc	3420
aaataatgga	attgtcaatt	gggtcatctg	ctgtaagggt	tggccttgaa	ctaaaaatgt	3480
tgtttggggc	aagggtccaga	aatgtggaga	catggtdttt	gttacgcatt	cttgtattat	3540
atgtgactaa	attdtacaac	aagatacatg	tgtaattdaaa	gaccttatg	gaactggaag	3600
acgtcttgta	gtgtctacatt	gggtgaaacc	gttgggtccat	tttdgtctgt	ttctatgaag	3660
ataaaaataat	tggggggccat	ctagaaatag	aaaggcagtg	ggaagacaga	ttctacggca	3720
ctgcttdtcat	ttaatggggc	tttaggcact	ccattcgaat	gcagaacctc	acctctagtt	3780
gagaccaaga	attggcaaat	ttgcatgagc	tcctggaaag	agttgctgac	tttgtatcta	3840
agacctgcca	gggaataacca	agagttgttt	ctacagactt	tttdtdtdtdt	tttgtatggg	3900
agaagatact	gtggcaacca	ggaagggaatg	gaaaaaaaat	tcttdtdtdt	acagcaaat	3960
aatgtgagga	agctcctcca	atcctctggc	tatttdaagg	tcaaaatcaa	gtgcctagggt	4020
aaaattccaa	tggatgattt	tctgggagct	atcttgtcta	ccttgaggtt	cctgaacaat	4080
gaattcccat	taatgagcag	tcttcagtat	taaaaccact	gtcttgtcac	ctcatttdtgc	4140
attactgtct	tccgtggatg	tttcagttac	aactgtaatg	ttatttatag	aacaacatta	4200
atccattaaa	gctaacctat	tttdcaatat	ttatgataat	ctatgtacat	atattgtctg	4260
tccatatgta	tttgtaaaata	gggtgtatat	aatgtcaggt	ttgggtcttg	ggttcaagtgt	4320
tatatatttdc	tgtaaagttt	ttactgtcat	ttgatgaat	tcacattatg	taactataag	4380
aattgtccca	aaagtacctg	tacagaaaat	tgaatttga	aaaattgaca	aattgtgtac	4440
aaacactaaa	aaaaacttgt	ttaaattgta	tttgcaataa	acaacatcaa	attdtdtdtcat	4500
gaaatcttgg	tacaaattca	gatctcttat	ttaaaatttd	aataagggaat	acatttdtcaa	4560
aatgcagtaa	tcaaaatgtg	atctagtgtta	atgaaataaa	atgtgatcta	gtgtaatgga	4620
agaccttdtga	gaacctgggt	gtattaactt	tgtgtatata	gtgtaaatat	ccccactgta	4680
ctgttagagg	ccaacaattc	tagtatgggt	tgttggcaaa	gagtgtctaca	ccgttdtcaat	4740
gaaacaatgt	atgttdtgtt	taactgaact	aaaataaata	catgtcttaat	cctgaaaaan	4800
aaaanaaaaa	aanaannaaa	annaaaaaaa	nnaangngnn	aaaaaaaann	ggggg	4855

PA-0043 US

<210> 128
 <211> 4173
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 140315.4

<400> 128

```

gaggaggagg gaaaaggcga gcaaaaagga agagtgggag gaggagggga agcggcgaag 60
gaggaagatg aggaggagga agaggggagc acaaaggatc caggtctccc gacgggaggt 120
taataccaag aaccatgtgt gccgagcggc tgggccagtt catgacctg gctttggtgt 180
tgccacactt tgacccggcg cgggggaccg acgccaccaa cccacccgag ggtccccaag 240
acaggagctc ccagcagaaa ggccgcctgt ccctgcagaa tacagcggag atccagcact 300
gtttggtcaa cgctggcgat gtgggggtgt gcgtgtttga atgtttcgag aacaactctt 360
gtgagattcg gggcttacat gggatttgca tgacttttct gcacaacgct ggaaaatttg 420
atgcccaggg caagtcattc atcaaagacg ccttgaaatg taaggcccac gctctgcggc 480
acaggttcgg ctgcataagc cggaagtgcc cggccatcag ggaaatggtg tcccagttgc 540
agcgggaatg ctacctcaag cagcacctgt gcgcggctgc ccaggagaac acccgggtga 600
tagtggagat gatccatttc aaggacttgc tgctgcacga accctacgtg gacctcgtga 660
acttgctgct gacctgtggg gaggagggtga aggaggccat caccacacgc gtgcaggttc 720
agtgtgagca gaactgggga agcctgtgct ccatcttgag cttctgcacc tcggccatcc 780
agaagcctcc cacggcgccc ccgagcgcgc agcccaggt ggacagaacc aagctctcca 840
gggcccacca cggggaagca ggacatcacc tcccagagcc cagcagtagg gagactggcc 900
gaggtgccaa gggtagcgca ggtagcaaga gccacccaaa cgcccatgcc cgaggcagag 960
tcggggggcct tggggctcag ggaccttcgc gaagcagcga gtgggaagac gaacagtctg 1020
agtattctga tatccggagg tgaaatgaaa ggcttgcca cgaaatcttt cctccacgcc 1080
gtccattttc ttatctatgg acattccaaa acatttacca ttagagaggg gggatgtcac 1140
acgcaggatt ctgtggggac tgtggacttc atcgaggtgt gtgttcgcgg aacggacagg 1200
tgagatggag acccctgggg ccgtgggggtc tcaggggtgc ctggtgaatt ctgcacttac 1260
acgtactcaa gggagcgcgc ccgcgttatc ctctacactt tgtcttcttt ccatctgtgg 1320
agtcagtggg tgtcggccgc tctgttgtgg gggaggtgaa ccaggagggg gcagggcaag 1380
gcagggcccc cagagctggg ccacacagtg ggtgctgggc ctgccccga agcttctggt 1440
gcagcagcct ctggtgctgt ctccgcggaa gtcagggcgg ctggattcca ggacaggagt 1500
gaatgtaaaa ataaatatcg cttagaatgc aggagaaggg tggagaggag gcagggggccg 1560
aggggggtgct tgggtgccaa ctgaaattca gtttcttggt tggggccttg cgggttcagag 1620
ctcttggcga ggggtggagg aggagtgtca tttctatgtg taatttctga gccattgtac 1680
tgtctgggct ggggggggaca ctgtccaagg gagtggcccc tatgagttta tattttaacc 1740
actgcttcaa atctcgattt cacttttttt atttatccag ttatatctac atatctgtca 1800
tctaaataaa tggctttcaa acaaagcaac tgggtcatta aaaccagctc aaaggggggtt 1860
taaaaaaaaa aaaaccagcc catcctttga ggctgatttt tctttttttt aagttctatt 1920
ttaaagcta tcaaacagcg acatagccat acatctgact gcctgacatg gactcctgcc 1980
cacttggggg aaaccttata ccagaggaa aatacacacc tggggagtac atttgacaaa 2040
tttcccttag gatttcgtta tctcaccttg accctcagcc aagattggtg aagctgcgtc 2100
ctggcgattc caggagacct agctggaaac ctggtcttc catgtgagg gatgggaaag 2160
gaaagaagag aatgaagact acttagtaat tccctcagg aaatgctgac cttttacata 2220
aaatcaagga gactgctgaa aatctctaag ggacaggatt ttccagatcc taattggaag 2280
tttagcaata aggagaggag tccaagggga caaataaagg cagagagaag agacagaact 2340
aaaaatacga ggaaaggaga gtgaggattt tcattaaaag tctcagcagt gggtttcttg 2400
ggttatttaa aacatcacct aaataggcct tttcttccta attggccatc aaattaaagc 2460
ctatcctttc tcaagcagga gctgggtatt tagggagtgg ccgggtattc tgggctgggc 2520
tcttctggag taggggggtc gcaaacattg tctgcaaagg gccagatact gaatccagta 2580
ctttcagttt ggcgagccgt gaggctctct tcgaaactac tcaactctgc cgtcctagca 2640
caaaagcagc catagacaac acacaaacga cagggccttg ctcccttcca ggaagattta 2700
ttaaacaggc tcccagctga atttcaactc caggacacag ttactgatc tctgttctag 2760
tgagtgggtc aaaaagcata tgcattccta tccgtcaact catcagctct tcctcaaggc 2820
aacctgaggg cagacaccaa gaaaccaagc gtatctgctc taaaatgact tgttcctggg 2880
gaatgccttc aaccaaaca cagctagtat ttctatgccc caaatccaat cccagctctt 2940
catgatccat gccggcggtt ggggtggggag gggaatcatt ggttggggga agggaggaaa 3000
ccccacctcc agccccgcc accgggctcc ctgggcaccc agcaagatct ggggctgcag 3060
agaacagaag agctggtgca cttaatccag ctctgcctt ggggggagga ggacctgtgt 3120
    
```

PA-0043 US

```

gtcaggctct gccatgggaa cgagtgtaaa ccgtggctgt ctctgcagt gagccaccgc 3180
ggcaggcacg ttgactgttt tactgacatc actcaaaagc taaagcaata acattctcct 3240
gcgttgctga gtcagctgtt catttgtccg ccagctcctg gaactggatgt gtgaaaggca 3300
tcacatttcc attttcctcc gtgtaaatgt tttatgtgtt cgctactga tcccattcgt 3360
tgcttctatt gtaaataatt gtcatattgt tttattatct ctgtgttttc cccctaaggc 3420
ataaaatggg ttactgtgtt catttgaacc catttactga tctctgttgt atatttttca 3480
tgccactgct ttgttttctc ctcagaagtc gggtagatag catttctatc ccatccctca 3540
cgttattgga agcatgcaac agtatttatt gctcagggtc ttctgcttaa aactgaggaa 3600
gggccacatt cctgcaagca ttgattgaga catttgcaca atctaaaatg taagcaaagt 3660
agtcattaaa aatacacctt ctacttgggc tttatactgc atacaaattt actcatgagc 3720
cttcctttga ggaaggatgt ggatctccaa ataaagattt agtggtttatt ttgagctctg 3780
catcttaaca agatgatctg aacacctctc ctttgtatca ataaatagcc ctgttattct 3840
gaagtgaag gaccaagtat agtaaaatgc tgacatctaa aactaaataa atagaaaaca 3900
ccaggccaga actatagtca tactcacaca aaggggagaaa tttaaactcg aaccaagcaa 3960
aaggcttcac ggaaatagca tggaaaaaca atgcttccag tggccacttc ctaaggagga 4020
acaacccgt ctgatctcag aattggcacc acgtgagctt gctaagtgat aatatctgtt 4080
tctactacgg atttaggcaa caggacctgt acattgtcac attgcattat ttttcttcaa 4140
gcgttaataa aagtttttaa taaatggcaa aaa 4173

```

<210> 129

<211> 2840

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 199776.6

<220>

<221> unsure

<222> 1748

<223> a, t, c, g, or other

<400> 129

```

ggccggggct ggagggcagt gctgggctgg tcccgcaggc gctcgggggt ggagccagcg 60
accgtcggta gcagcatggg ctctcctctt tctcctaccc cttgtcatgc aggggtgtgag 120
cagggctgag atgggcaccg cggatctggg gccgtctca gtgcctacac caactaatgt 180
tacaattgaa tctataaca tgaaccctat cgtatattgg gactaccaga tcatgccaca 240
ggctcctgtt tttaccgtag gaggtaaaga actatgggtg taagaattca gaatggattg 300
atgcctgcat caatatttct catcattatt gtaatatctc tgatcatgtt ggtgatccat 360
caaattctct ttgggtcaga gttaaagcca ggggtggaca aaaagaatct gcctatgcaa 420
agtcagaaga atttgcgtga tgccgagatg gaaaaattgg accacctaaa ctggatatca 480
gaaaggagga gaagcaaatc atgattgaca tatttcaccc ttcagttttt gtaaatggag 540
acgagcagga agtcgattat gatcccgaaa ctacctgtta cattaggggtg tacaatgtgt 600
atgtgagaat gaacggaagt gagatccagt ataaaatact cacgcagaag gaagatgatt 660
gtgacgagat tcagtgccag ttagcgattc cagtatcctc actgaattct cagtactgtg 720
tttcagcaga aggagtctta catgtgtggg gtgttacaac tgaaaagtca aaagaagttt 780
gtattaccat tttcaatagc agtataaaag gttctctttg gattccagtt gttgctgctt 840
tactactctt tctagtgtt agcctggtat tcatctgttt ttatattaag aaaattaatc 900
cattgaagga aaaaagcata atattaccca agtccttgat ctctgtggta agaagtgtct 960
ctttagagac aaaacctgaa tcaaaatatg tatcactcat cacgtcatc cagccatttt 1020
ccttagaaaa ggaggtggtc tgtgaagagc cgttgtctcc agcaacagtt ccaggcatgc 1080
ataccgaaga caatccagga aaagtggaac atacagaaga actttctagt ataacagaag 1140
tggtgactac tgaagaaaat attcctgacg tgggtccggg cagccatctg actccaatag 1200
agagagagag ttcttcacct ttaagtagta accagtctga acctggcagc atcgctttaa 1260
actcgatatc ctccagaat ttgtctgaga ctgactactc cagaaatggg tttgtactctg 1320
attccagctg tctggaatca catagctcct tatctgactc agaatttccc ccaaataata 1380
aagggtgaaat aaaaacagaa ggacaagagc tcataaccgt aataaaagcc cccacctcct 1440
ttggttatga taaaccacat gtgctagtgg atctacttgt ggatgatagc ggtaaagagt 1500
ccttgattgg ttatagacca acagaagatt ccaaagaatt ttcatgagat cagctaagtt 1560
gcaccaactt tgaagtctga ttttcctgga cagttttctg ctttaatttc atgaaaagat 1620
tatgatctca gaaattgtat cttagttggt atcaaccaa tggagtgtgact tagtgtacat 1680

```


PA-0043 US

gaaagcgtaa	agaggatgtg	tggcattttc	acttttgggt	tgtaaagtac	agactttttt	1740
tttttttnaa	acaaaaaaag	cattgtaact	tatgaacctt	tacatccaga	taggttacca	1800
gtaacggaac	agtatccagt	actcctgggt	cctaggtgag	caggtgatgc	cccagggacc	1860
tttgtagcca	cttcactttt	tttcttttct	ctgccttggg	atagcatatg	tttttgtaag	1920
tttatgcata	cagtaatttt	aagtaatttc	agaagaaatt	ctgcaagctt	ttcaaaattg	1980
gacttaaaat	ctaattcaaa	ctaatagaat	taatggaata	tgtaaataga	aacgtgtata	2040
tttttttatga	aacattacag	ttagagattt	ttaaataaag	ccatccccga	gttttcttgg	2100
gggcagagga	aaacgcttct	ttctcctcca	gctgaatcag	ctggatccca	gtgtcctggc	2160
tgtttgggtga	ttgggcaaga	ttgaatttgc	ccaggtaggc	gtgagagtgt	gggtttttaa	2220
ttcgaagctc	aggccatagt	ttcagagaat	cacccttacc	ccagaccttc	atgagacagt	2280
gctcatgaac	ccagtgcgtt	ttccagaacg	aacactaggc	ggcaccggtg	gtccacactc	2340
agaggccctt	ggcgccaaga	ctgcatctag	aatcgctcaa	acacctgttt	gcagacccca	2400
tgcaccagct	ggaggggccc	taactgcagg	actgcgccta	ctgagtgaac	catttctctc	2460
aggaggaaag	gcaagacacg	cttacacggc	catttgtctc	ttttcccaat	gcggcggtgc	2520
actttcgctc	ttgggggctg	cacccagac	atagctggca	ccagagcagg	gtgctcaggt	2580
ggtgggtgct	cagggccctg	ccccaggcca	ctgggcccgt	ttgatgacct	cgaaggctac	2640
aggcagaaaa	taggagcagg	atttcccctg	gggaaaagtt	ctcctgggac	atcttctgct	2700
cttctgtaca	tttctagatg	caaataaact	cttcaccagg	cagtgaagtg	cgtaggctct	2760
ggagccaggc	tgcttgggct	ccaatgccag	ctcctgccac	ttgctagctg	tgagactgtg	2820
gacaaaccac	tcagcctctg					2840

<210> 130

<211> 7290

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 226473.25

<400> 130

gttttgggat	ggtggttgat	aactaagaca	aagtgtgtaa	gaaatgatag	aagttgcaaa	60
gagacgttag	tgtactatac	ttgggtgaatg	ttggaaactg	caggacctgc	tgtagggaag	120
aaaaaagttc	tagctggaaa	gaatgaggaa	accaaagagc	tctgcagagg	gagggggaag	180
acaagacaga	ctgcagctgt	gcttctgtgg	acccaagaa	cagcactgtt	catacacaga	240
ggatagctct	gaagagagat	acctgtgtag	tgcagcttct	aaatttcata	ataaagtcag	300
agcaccataa	catggtgtgg	gaagtgaaga	caaatcagat	gcctaattgca	gtacagaaac	360
tctgttgggt	gatggacaag	agagcctcag	gaatgaatga	ctcattggag	ttgctgcagt	420
gtaatgagaa	tttgccatct	tcacctggat	ataactcctg	tgatgaacac	atggagcttg	480
atgaccttcc	tgaacttcag	gcagttcaaa	gtgatcctac	ccaatctggc	atgtaccagc	540
tgagttcaga	tgtttcacat	caagaatacc	caagatcatc	ttggaaccaa	aatacctcag	600
acataccaga	aactacttac	cgtgaaaatg	aggtggactg	gctaacagaa	ttggcaaata	660
tcgcgaccag	tccacaaagt	ccactgatgc	agtgtctatt	ttacaataga	tcatctcctg	720
tacacatcat	agccactagc	aaaagtttac	attcctatgc	acgccctcca	ccagtgtcct	780
cttcttcgaa	gagtgaacca	gccttccctc	atcaccattg	gaaggaggaa	acaccagtaa	840
gacacgaaag	ggcaaatagt	gagtcagaat	ctggcatttt	ctgcatgtcc	tcctgtgcag	900
atgatgatga	tttgggatgg	tgcaattcct	ggccttcaac	tgtctggcac	tgttttttga	960
aaggcacacg	actgtgcttt	cataagggaa	gcaataagga	atggcaagat	gttgaagatt	1020
ttgctagagc	tgaaggctgt	gataatgagg	aagatcttca	aatgggcatt	cacaagggct	1080
atggttctga	tggctctaaag	ttgttatcac	atgaagaaag	tgtatcattt	ggcaggtctg	1140
tactgaagtt	gacttttgat	cctggtacag	tagaagatgg	tttacttacc	gtagagtgtg	1200
agctggacca	ccctttctat	gttaaaaaata	aaggttgggt	atcattttat	ccaagcttga	1260
ctgtgggtaca	gcatggcatt	ccatgttgtg	aagttcatat	tggcgatgta	tgtctacctc	1320
ctggacaccc	cgatgccatt	aattttgatg	attcaggtgt	ttttgataca	tttaaaagct	1380
atgacttcac	acctatggat	tcttctgcag	tttatgtgtt	aagtagtatg	gctcgccagc	1440
gtcgtgcac	tttgtcttgt	ggaggacctg	gtgggtcaaga	cttttgcaaga	tctggattca	1500
gtaaaaaactg	tggctcacct	ggatcatcac	agctctcttc	caattctttg	tatgctaaag	1560
ctgtcaaaaa	ccacagctca	gggactgtga	gtgccacttc	tcctaataag	tgcaaaagac	1620
caatgaatgc	cttcatgctt	tttgccaaaa	aatacagagt	tgaatatact	cagatgtatc	1680
cagggaaaga	taacagagcc	ataagtgtga	tccttgggtg	caggtggaag	aaaatgaaga	1740
atgaagagag	aagaatgtac	acattagaag	caaaggcttt	ggctgaagaa	cagaaacgtt	1800
taaatcctga	ctgttgggaag	aggaaaagaa	ccaattcagg	ctcacaacaa	cattaaacca	1860

```

ggatgcttat gttcttaagt ctatatattgc atatacattg actcttgatg gaaagactta 1920
agaagatcaa ggtctcacca tttgtcctca attcgtgtga ccataagata ctgatagcat 1980
tgagtcttga aatgatttaa taatatgagt gaggatttgc tttctccatt agagcattaa 2040
gctaaaacta tcaacatttt aaaccaaatt gccttatttt tcttccaaac ttcatatatg 2100
tctatcaggt aataataggt ttgaaaattg atatcctgtg gtgctaaagt acagtagaaa 2160
gagaggagaa gtgtatacat gttttatttt aaattgtacg aaaggggaat ttaaaaaata 2220
tgtaactgct gtttatacat tggctcctta ctgcttatta atctgtattg tacacatgat 2280
gaaatgaagc agaagctggg agtcggcctt tcctctagta accaccacat ggctcagcat 2340
ctgtgccaaa cataggcgct cctagtctgg tcagtgccaa gaggctacca gaacatgggg 2400
caggtggctg gtgttgggtg cccagcctaa gagccacctg ctgcagttac catggcatgc 2460
tgagttgatg caccaggtgg cagcagccat ccgttattat ttccaatgga gacctagccc 2520
aggccaaggt aaagttagtt aatagcattg ggatatagtc actgtaatgg tgctattaac 2580
aaacagtcaa caccattgta ttttttaact tcgtgttctg tatctcctca gccatgtatc 2640
ttaaatatat tttgtcatca taatctttat ggtgggggca gactttgcac ttactgcagt 2700
gcaacacttg cactttaatt ttcctccaac tgtctaaaat tagagcaaat acattggcaa 2760
tacagctgct tttgctctga gctacaatca tggcttttca tgttacttac caagtgggtg 2820
ttctggttag gaatcacagc tgtaaaattg atttcagttc atcacacttc ttcatgatgt 2880
tgccccataa ttttgcacac tatattcttg tatattattt gattgattga ttaatcttgg ctgaatttta 2940
ttgcttatct ctgacgteta ctgattgatt caggttcagg agatgagatg gaaaacataa ggcaattcc 3000
tttatgagtt ctcagaataa caggttcagg gatttttaaaa attaaaaaca atgttaatat 3060
taacactgct aattaggagg ctgctgtag tagattatct actatttata gagaattgct 3120
tggaacaaga gccatcagaa aataaggact tagattatct actatttata gagaattgct 3180
atacaataaa aatttttatt tttcacgtgg catttttgtt acacgggtta acagcccaa 3240
ggtctgcttt taataacatg acaaagtgt acaaaagcct tgctttatct aaagatccag 3300
tatgacatac ttaaaaaggc catttaacct tgtatcttag cttgggatgt gccagtgggt 3360
cctcaacttt gttgtctatt ggaatcattt tggggatttt tttttttttt aatagtgggt 3420
tctgtcagge tcccactcct agacatgtta attaatgtgg agtgcaagtt gggcatcagg 3480
attttaaaaa aatccccctg tgattgggat gaatgtgcag ccaaatttgg aaaccactga 3540
gtacatactg tattttagtga agaaggcagg gttgggggaa gcagggtaca tgttataact 3600
tgatcatatc cttttaaaag aagtggggac tttgggttta tgtaccataa ggaggacttg 3660
gttatggatg ggaaagacat tttagccttg tacaaaaatc tgaaagagga aaacatcttt 3720
ctggaaaaat caggtccatg gaattgaaag gtggtgataa ctcaacattt tttatgctaa 3780
agtataagtg ctaaagaggt aaataaacgt cgataggaaa taccgaacaa tcaattacat 3840
tcttaaaata gtagatagta gcagtctttt ggagtatgtg ttaactgcc aactatgaat 3900
gggttagcac aaagtggaga tgaacaaaga tttcatgtca ttactgaaga gcagacatag 3960
ccttttgaag cagctgaacc attatgggat aaactggtgc aaattctttg ccttctctac 4020
ttctcactga ttgaacataa gcttcagggt ctcctctgat gaggaggagc ctgtcctttt 4080
cagatggatg gtcattccagc cttcagaga agcgtgtgtg ggaacctct ctgaataatg atgctgaacg 4140
aaggagattt cagttcagcg ggtgctctcg tgaacaaaaa acttgccctg aagagcagag 4200
gaatcacatc ccccaatgca ggactactgg ctacatgttc acttgccctg agatactcgt ctacagaatg 4260
gtctgaatga tctcagcatc cgataggact ttcctaaatc agatactcgt ccaccttcac 4320
gacccacagc caactccatc tgtgcaaaat cagcagcaag tcgcattttc cactcttcac 4380
caagaggtct tatgagactg gcatggcgga taaaaagttc aacagctctt tgggcaatat 4440
cctcagtggt gtcaaagaca aaatccaagc attcaaagtg tttaaaatag tcaactcataa 4500
ctctggcaat gaaaccttgt agctccttca tgtacagaga acaaggaaca tcaggttttc 4560
ctgagctgga taatgaccca gaaaagtctt ctcgatgcac ggtgatgatt atggcctcta 4620
tagcatctcc cacagaagtg agtaagggtt gcacagcatt ttccataaga gcatgaatat 4680
cctttgttac tgattgggtg aacttatata atgaattcac tactgccaca tttcttctct 4740
gtccttcagt aagaggccca atcacctgac ttgcatctcc ttgtgtgggg agaagctgct 4800
ctgattttac actgtataac tggatggtct ttgccacatt ttttgacaca gctaagtga 4860
ggtttgatc aacagcagca acatttagtt cacttgctat agttttaata ataccatcaa 4920
gttcatcaga ggaaggagga ttacgaccac ccgggggaaa aaccaagttg ataggatcga 4980
agagtcgaga taaggatttt gatagataag cagcctcata gggttgtagt gactctttca 5040
aagccttttc tggatcataa tctggctttt ttggtatgaa tatatcttgt gcatcatctt 5100
ccatgtgttg taggtcaaca tagaggtctg tagttccact tgcattaaaa ttcccttga 5160
tatgctgact gtattgttga agacgcttcc ataagtcatt ataaagacgt aataatttag 5220
ggtattctcc tcaaaatgcc tgcttcaaaa acatcgaaga gtttgttgcc atatgaaatt 5280
gagaagaaaag tgctgagta actgaattcc aaaatgtgta gaaaatttcc ggttgtccat 5340
ccttaactat ttcttcaatg aaacaaatgt gagaaacagg atctctcttc ttggccaata 5400
ctttttgtag atgttgtacc tgtccacaaa cagcataaat atgatccata agtttctcca 5460
tattgggtcca gagtgaggca cgcaaagctg cagtatttcc tggggttggc atggtagatc 5520
gtccaggtcc cctctcaca gctgactggg aaggctgagt caaaactttt atgtctaatt 5580

```

PA-0043 US

```

cactgttgat attttcttct aaagtagcac aatatccatc cacaacactg gtaatagtat 5640
ccttcaaagt tccaagatta tagaaaacct gaagagctgt tccgacttga gttggattct 5700
gagtcctcaa accctgctct agtaggcgct tagcttgatt tccacttca agtcgggctc 5760
ttgcaataaa aagtagatca ttttctatca cttctattcc agaaagatct attccttgag 5820
aaagataatc aagttcattg agactctgag cagcttttgt tatctctcta cttccccctt 5880
gcagttgtcc ttggagtctc ttactgagat tcaagatacg aataatcctc cgaagcaaat 5940
cacaggcaac ctgaagtctt gctagtgtg cagtcggggc aactatctta ttgtatgggt 6000
caacaatttt tgcttttatc ctatcaacag ctccctgtaa agccccaatt ctggtctgca 6060
tcatctgaag aacaccttcc aacgactcaa tcccagttgc ttgtgccagt aaatcttcat 6120
gtcttgcaac aacctgtaag tgtagttctc tgtccaactg actgattcct tgggcaagtt 6180
ttgctaagtt ttcagcaatt acagcttgat gaatagattg agaagtataa gtcctttacat 6240
caaagtcttc gtttaaaaag tcaactataac acccgtcctg cagaagttcc cggactgtag 6300
ctgcagccgc tccagagcct cgagctccga ggccagctac agcgacgctg ccgcccgcac 6360
cttccatggt ggcaggtgcc ggggtgatgt cgtcagcagc agaacggctc cgcccagggt 6420
gtgacgcaga atcccgccgc cgcccgccca ccagcccat ggctccaggc ccacctggcg 6480
aactgactct cagcccgcgc ctgggctaag cctggctagg agccgcgcag gtactcgagc 6540
agtgggcgcc cagggtcgca gtgctctgct cccagcgcac cgagggagcc aaggccgtcg 6600
ggccggcgct ttcagctgtc tctcgagca gctcagggcc gcgccccctg ggctggcgct 6660
gtgccctagc caaggagaag tttcagtcac gtgccagact ttttcttaat taaaaactga 6720
tagatggctc acatctcaac taacagtatt gacgctgtaa gagcatcaga tttgaaacat 6780
atctgtatta atgaagatg actgcatgca aacgacaata tgtcaggaaa gaaaaaaga 6840
tcccatagaa atgtttcatt ctggacagct ggtaaaagtc tgtgccccaa tggttcgata 6900
ttcaaagttg gcttttagga cactagtaag aaaatatagt tgtgatctgt gttacacacc 6960
aatgattggt gccgctgatt ttgtcaaatc tataaaagcc agagacagcg aatttaccac 7020
aaatcaaggt gattgcccat tgattgttca gtttgctgct aacgatgcaa gacttttatc 7080
tgatgctgct cgtatagtct gtccctatgc gaatggaata gacattaact gtggttgccc 7140
tcagaggtaa agctcaaaga agttggaaga attttccaaa agagtagaaa aaaaactgtg 7200
tgaacatggt gggcaatggc agaaggttat ggggcttgct taataaacia gccagagctt 7260
gttcaagaca tggtgaaaca agtaagaaat 7290

```

<210> 131

<211> 3154

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 241888.54

<220>

<221> unsure

<222> 2919, 2922, 3031, 3033, 3043-3044, 3119

<223> a, t, c, g, or other

<400> 131

```

gcggcggttaa atattccagt aaaaaatgac agactgacta tatacatctt ctttccttcc 60
caaaacccca ctaaaatgac aatcgaggaa ttttttttta agtataaaac tctaagaata 120
aaaataatgg gaaggtgaca gcagcagata agaggtttta acaaactttc agagacagca 180
gagcacacaa gcttctagga caagagccag gaagaaacca ccggaaggaa ccatctcact 240
gtgtgtaaac atgacttcca agctggccgt ggctctcttg gcagccttcc tgatttctgc 300
agctctgtgt gaaggtgcag ttttgccaag gactgctaaa gaacttagat gtcagtgcac 360
aaagacatac tccaaacctt tccaccccaa atttatcaaa gaactgagag tgattgagag 420
tggaccacac tgcgcccaaca cagaaattat tgtaaagctt tctgatggaa gagagctctg 480
tctggacccc aaggaaaact ggtgagagag ggttgtggag aagtttttga agagggctga 540
gaattcataa aaaaattcat tctctgtggt atccaagaat cagtgaagat gccagtgaac 600
cttcaagcaa atctacttca acacttcatg tattgtgtgg gtctgttgta ggggtgccag 660
atgcaataca agattcctgg ttaaatttga atttcagtaa acaatgaata gtttttcatt 720
gtaccatgaa atatccagaa catacttata tgtaaagtat tatttatattg aatctacaaa 780
aaacaacaaa taatttttaa atataaggat tttcctagat attgcacggg agaataataca 840
aatagcaaaa ttgaggccaa gggccaagag aatatccgaa ctttaatttc aggaattgaa 900
tggggtttgct agaatgtgat atttgaagca tcacataaaa atgatgggac aataaatttt 960
gccataaagt caaatttagc tggaaatcct ggattttttt ctgttaaata tgggcaaccc 1020

```

PA-0043 US

tagtctgcta	gccaggatcc	acaagtcctt	gttccactgt	gccttggttt	ctcctttatt	1080
tctaagtgya	aaaagtatta	gccaccatct	tacctcacag	tgatgttgtg	aggacatgtg	1140
gaagcacttt	aagttttttc	atcataacat	aaattatttt	caagtgtaac	ttattaacct	1200
atattattatt	tatgtattta	tttaagcatc	aaatatttgt	gcaagaattt	ggaaaaatag	1260
aagatgaatc	attgattgaa	tagttataaa	gatgtttatg	taaattttatt	ttatttttaga	1320
tattaaatga	tgttttatta	gataaatttc	aatcagggtt	tttagattaa	acaaacaaac	1380
aattgggtac	ccagttaaat	tttcattttca	gataaacaac	aaataatttt	ttagtataag	1440
tacattattg	tttatctgaa	attttaattg	aactaacaat	cctagtttga	tactcccagt	1500
cttgtcattg	ccagctgtgt	tggtagtgtc	gtgttgaatt	acggaataat	gagttagaac	1560
tattaaaaca	gccaaaactc	cacagtcaat	attagtaatt	tcttgctggg	tgaaacttgt	1620
ttattatgta	caaatagatt	cttataatat	tatttaaattg	actgcatttt	taaatacaag	1680
gctttatatt	tttaacttta	agatgttttt	atgtgctctc	caaatttttt	ttaccttgac	1740
aacaaattat	attttaaattg	tttcataatt	actttttatat	ttccatacaa	tcagaaacat	1800
ttaaaaaaat	ttggagagca	cataaaaaaca	tcttaaagtt	aaaaatataa	agccttgat	1860
ttaaaaatgc	agtcatttaa	ataatattat	aagaatctat	ttgtacataa	taaacaagtt	1920
tcaaccagca	agaaattact	aatattgact	gtggagtttt	ggctgtttta	atagttctaa	1980
ctcattattc	cgtaattcaa	cacagcacta	ccaacacagc	tggcaatgac	aagactggga	2040
gtatcaaact	aggattgtta	gttcaattaa	aatttcagat	aaacaataat	gtactttatac	2100
taaaaaatta	tttgttgttt	atctgaaatg	aaaatttaac	tgggtaccca	attgttttgtt	2160
tgtttaattc	aaaaaccctg	attgaaattt	atctaataaa	acatcattta	atatctaaaa	2220
taaaataaat	ttactataac	atctttataa	ctattcaatc	aatgattcat	cttctatttt	2280
tccaaattct	tgcacaaata	tttgatgctt	aaataaatac	ataaataata	aatagggttaa	2340
taagttacac	ttgaaaataa	tttatgttat	gatgaaaaaa	cttaaagtgc	ttccacatgt	2400
cctcacacaa	tcactgtgag	gtaagatggt	ggctaatact	ttttccactt	agaaataaag	2460
gagaaaccaa	ggcacagtgg	aacaaggact	tgtggatcct	ggctagcaga	ctagggttgc	2520
cagattttaac	agaaaaaaat	ccaggatttc	cagctaaatt	tgactttatg	gcaaaattta	2580
ttgtcccac	atttttatgt	gatgcttcaa	atatcacatt	ctagcaaacc	cattcaattc	2640
ctgaaattaa	agttcggata	ttctcttggc	ccttggcgct	aattttgcta	tttgtatatt	2700
ctcccgtgca	atatctagga	aagccttata	tttaaaaatt	atttgttgtt	ttttgtagat	2760
tcaaataaat	aatactttac	atataagtat	gttctggata	tttcatggta	caatgaaaaa	2820
ctattcattg	tttactgaaa	ttcaaattta	accaggaatc	ttgtattgca	tctggcaaca	2880
cttcatgtat	tgtgtgggtc	tgttgtaggg	ttgccagang	cnaataaagt	atgttctgga	2940
tattttcatg	tacaatgaaa	aactattcat	tgtttactga	aattcaaat	taaccaggaa	3000
tcttgtattg	catctggcaa	ccctacaaca	ngnccacac	aanncatgaa	gtgttggaagt	3060
agattttgctt	gaagtttcac	tgtgccttgg	tttctccttt	atttctaagt	ggaaaaagna	3120
ttagccacca	tcttacctca	cagtgatgtt	gtga			3154

<210> 132

<211> 3587

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 246064.2

<400> 132

atctagaact	agcgaattcc	gtcagcgcgc	ccgctcgcac	tggttcgggag	actctcggag	60
cgcgcacagt	cggctcgcag	cgcgccacta	cagcggcccc	ggccccggcc	ccgccccggcc	120
ccggcgcagg	cagttcagat	taaagaagct	aattgatcaa	gaaatcaagt	ctcaggagga	180
gaaggagcaa	gaaaaggaga	aaaggggtcac	caccctgaaa	gaggagctga	ccaagctgaa	240
gtcttttgct	ttgatggttg	tggtatgaaca	gcaaaggctg	acggcacagc	tcacccttca	300
aagacagaaa	atccaagagc	tgaccacaaa	tgcaaaggaa	acacatacca	aactagccct	360
tgttgaagcc	agagttcagg	aggaagagca	gaaggcaacc	agactagaga	aggaactgca	420
aacgcagacc	acaaagtttc	accaagacca	agacacaatt	atggcggaagc	tcaccaatga	480
ggacagtcaa	aatcgccagc	ttcaacaaaa	gctggcagca	ctcagccggc	agattgatga	540
gttagaagag	acaaacaggt	ctttacgaaa	agcagaagag	gagctgcaag	atataaaaga	600
aaaaatcagt	aagggagaat	atggaaacgc	tggtatcatg	gctgaagtgg	aagagctcat	660
aaaaatggag	gagcagtgc	gagatctcaa	taagaggctt	gaaagggaga	cgttacagag	720
taaagacttt	aaactagagg	ttgaaaaact	cagtaaaaga	attatggctc	tggaaaagt	780
agaagacgct	ttcaacaaaa	gcaaacaaaga	atgctactct	ctgaaatgca	atttagaaaa	840
agaaaggatg	accacaaagc	agttgtctca	agaactggag	agtttaaaag	taaggatcaa	900

PA-0043 US

```

agagctagaa gccattgaaa gtcggctaga aaagacagaa ttcactctaa aagaggattt 960
aactaaactg aaaacattaa ctgtgatgtt tgtagatgaa cggaaaacaa tgagtgaaaa 1020
attaaagaaa actgaagata aattacaagc tgcttcttct cagcttcaag tggagcaaaa 1080
taaagtaaca acagttactg agaagttaat tgaggaaact aaaagggcgc tcaagtccaa 1140
aaccgatgta gaagaaaaga tgtacagcgt aaccaaggag agagatgatt taaaaacaa 1200
attgaaagcg gaagaagaga aaggaaatga tctcctgtca agagttaata tgttgaaaaa 1260
taggcttcaa tcattggaag caattgagaa agatttccta aaaaacaaat taaatcaaga 1320
ctctgggaaa tccacaacag cattacacca agaaaacaaat aagattaagg agctctctca 1380
agaagtggaa agactgaaac tgaagctaaa ggacatgaaa gccattgagg atgacctcat 1440
gaaaacagaa gatgaatatg agactctaga acgaaggtat gctaatgaac gagacaaagc 1500
tcaattttta tctaaagagc tagaacatgt taaaatggaa cttgctaagt acaagttagc 1560
agaaaagaca gagaccagcc atgaacaatg gcttttcaaa aggcttcaag aagaagaagc 1620
taagtcaggg cacctctcaa gagaagtggg tgcattaaaa gagaaaattc atgaatacat 1680
ggcaactgaa gacctaatat gtcacctcca gggagatcac tcagtcctgc aaaaaaaact 1740
aaatcaacaa gaaaacagga acagagattt aggaagagag attgaaaacc tactaagga 1800
gttagagagg taccggcatt tcagtaagag cctcaggcct agtctcaatg gaagaagaat 1860
ttccgatcct caagtatttt ctaaagaagt tcagacagaa gcagtagaca atgaaccacc 1920
tgattacaag agcctcattc ctctggaacg tgcagtcac aatggtcagt tatatgagga 1980
gagtggagaa caagacgagg accctaata tggagggatct gtgctgtcct tcaaatgcag 2040
ccagtcact ccatgtcctg ttaacagaaa gctatggatt cctggatga aatccaagga 2100
gggcatcctt cagaatggaa aaatgcaaac taaacccaat gccacttttg tgcaacctgg 2160
agatctagtc ctaagccaca cacctgggca gccacttcat ataaagggtta ctccagacca 2220
tgtacaaaac acagccactc ttgaaatcac aagtccaacc acagagagtc ctactctta 2280
cacgagtact gcagtgatac cgaactgtgg cacgccaaag caaaggataa ccatcctcca 2340
aaacgcctcc ataaccaccg taaagtccaa aacctctacc gaagacctca tgaatttaga 2400
acaaggcatg tccccaatca ccatggcaac ctttgccaga gcacagaccc cagagtcttg 2460
tggttctcta actccagaaa ggacaatgtc ccctattcag gttttggctg tgactgggtc 2520
agctagctct cctgagcagg gacgtcccc agaaccaaca gaaatcagtg ccaagcatgc 2580
gatattcaga gtctccccag accggcagtc atcatggcag tttcagcgtt caaacagcaa 2640
tagctcaagt gtgataacta ctgaggataa taaaatccac attcacttag gaagtcctta 2700
catgcaagct gtagccagca gccctgtgag acctgccagc ccttcagcac cactgcagga 2760
taaccgaact caaggcttaa ttaacggggc actaaacaaa acaaccaata aagtcaccag 2820
cagtattact atcacaccaa cagccacacc tcttctcga caatcacaaa ttacagtaag 2880
taatataat aactgaccac gtcaccctc atccagtcca tactgatatt tttgcaagga 2940
actcaatcct tttttaatca tccctccata tcccccaaga ctgactgaac tcgtactttg 3000
ggaaggtttg tgcataact atacaagagt atctgaaact aactggtgcc tgcatagtca 3060
tatcgagtgt gcacttactg tatatctttt catttacata cttgtatgga aaatatttag 3120
tctgcacttg tataaataca tctttatgta tttcattttc cataactcac tttaatttga 3180
ctgcaacttg tcttggtgaa atactttaac attataaaac agtaaaataat ttgttatttt 3240
taccattgct tgctgaattt tcttttggtc attctgtgtt atatttctgc atgtacaata 3300
gaattttgtc ttttgcttat agtctctatt aattcttcct taaaaacaaa caggacctat 3360
gtcccattta tgggtcaactt ctaatcacat attagaggag agaaaagtgg ttcaaataaa 3420
taaaaattac atctctttga tttcaaagt aactataaga tctttcagaa gcaaacataa 3480
cttcatgctt gggatatatt tcagtatctc taagagccca gcacagtgtc tagactacat 3540
taggaactta aatgtttata ataatgaaat aaaatactac cggaata 3587

```

<210> 133

<211> 5929

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 247584.5

<220>

<221> unsure

<222> 5081

<223> a, t, c, g, or other

<400> 133

ccgggtcctt ctccgagagc cggggcgggca cgcgtcattg tgttacctgc ggccggcccg 60

cgagctagggc tggggttttta tttttctccc ctccctcccc cctttttcca tgcagctgat 120
 ctaaaaaggga ataaaagggt ggcataatc ataataataa aagaagggga gcgcgagaga 180
 aggaaagaaa gccgggagggt ggaagaggag ggggagcgtc tcaaagaagc gatcagaata 240
 ataaaaggag gccgggctct ttgccttctg gaacggggccg ctcttgaaag ggcttttgaa 300
 aagtgggtgtt gttttccagt cgtgcatgct ccaatcggcg gagtatatta gagccgggac 360
 gcggcgcccg caggggcagc ggcgacggca gcaccggcg cagcaccagc gcgaacagca 420
 gcggcgccgt cccgagtgcc cgcggcgccg cggcgccagc atgcgttccc caccgacgcg 480
 cggccgggtcc gggcgccccc taagcctcct gctcgccctg ctctgtgccc tgcgagccaa 540
 ggtgtgtggg gcctcgggtc agttcgagtt ggagatcctg tccatgcaga acgtgaacgg 600
 ggagctgcag aacgggaact gctcggggcg cgcccggaac cggggagacc gcaagtgcac 660
 ccgcgacgag tgtgacacat acttcaaagt gtgcctcaag gagtatcagt cccgcgtcac 720
 ggccgggggg ccttcgagct tcggctcagg tccacgcctt gtcacgggg gcaacacctt 780
 caacctcaag gccagcccg gcaacgaccg caaccgcctt gtgctgcctt tcagtttcgc 840
 ctggccgagg tcctatacgt tgcttgtgga ggcgtgggat tccagtaatg acaccgttca 900
 acctgacagt attattgaaa aggccttctc ctcgggcatg atcaacccca gccggcagtg 960
 gcagacgctg aagcagaaca cgggcgttgc ccactttgag tatcagatcc gcgtgacctg 1020
 tgatgactac tactatggct ttggctgcaa taagttctgc cgcccagag atgacttctt 1080
 tggacactat gcctgtgacc agaattggcaa caaaacttgc atggaaggct ggatggggcc 1140
 cgaatgtaac agagctatatt gccgacaagg ctgcagtcct aagcatgggt cttgcaaat 1200
 cccagtgac tgcaggtgcc agtacggctg gcaaggcctg tactgtgata agtgcacccc 1260
 acaccggga tgcgtccacg gcatctgtaa tgagccctgg cagtgcctct gtgagaccaa 1320
 ctggggcgcc cagctctgtg acaaagatct caattactgt gggactcatc agccgtgtct 1380
 caacggggga actttagca acacaggccc tgacaaatat cagtgttctt gccctgaggg 1440
 gtattcagga cccaactgtg aaattgctga gcacgcctgc ctctctgac cctgtcacia 1500
 cagaggcagc tgtaaggaga cctccctggg ctttgagtgt gagggttccc caggctggac 1560
 cggcccccaca tgctctacaa acattgatga ctgttctcct aataactgtt cccacggggg 1620
 cacctgccag gacctggtta acggatttaa gtgtgtgtgc ccccccacagt ggactgggaa 1680
 aacgtgccag ttagatgcaa atgaatgtga ggccaaacct tgtgtaaacy ccaaatcctg 1740
 taagaatctc attgccagct actactgcga ctgtcttccc ggcctggatgg gtcagaattg 1800
 tgacataaat attaatgact gccttggcca gtgtcagaat gacgcctcct gtcgggattt 1860
 ggttaatggt tatcgtgtga tctgtccacc tggtatgca ggcgatcact gtgagagaga 1920
 catcgatgaa tgtgccagca acccctgttt gaattgggggt cactgtcaga atgaaatcaa 1980
 cagattccag tgtctgtgtc ccactggttt ctctggaaac ctctgtcagc tggacatcga 2040
 ttattgtgag cctaaccct gccagaacgg tgcccagtg tacaaccgtg ccagtacta 2100
 tttctgcaag tgcccagag actatgaggg caagaactgc tcacacctga aagaccactg 2160
 ccgcacgacc cctgtgaag tgattgacag ctgcacagtg gccatggctt ccaacgacac 2220
 acctgaaggg gtgcggtata tttcctccaa cgtctgtggt cctcacggga agtgcaagag 2280
 tcagtcggga ggcaaatca cctgtgactg taacaaaggc ttcacgggaa catactgcca 2340
 tgaaaatatt aatgactgtg agagcaaccc ttgtagaaac ggtggcactt gcatcgatgg 2400
 tgtcaactcc tacaagtga tctgtagtga cggctggggag ggggcctact gtgaaaccaa 2460
 tattaatgac tgcagccaga acccctgcca caatgggggc acgtgtcgcg acctgggtcaa 2520
 tgacttctac tgtgactgta aaaatgggtg gaaaggaaag acctgccact cactgtacag 2580
 tcagtgtgat gaggccacgt gcaacaacgg tggcacctgc tatgatgagg gggatgcttt 2640
 taagtgcag tgtcctggcg gctgggaagg aacaacctgt aacatagccc gaaacagtag 2700
 ctgcctgccc aacctgtcc ataattgggg cacatgtgtg gtcaacggcg agtcccttac 2760
 gtgcgtctgc aaggaaggct gggaggggcc catctgtgct cagaatacca atgactgcag 2820
 cctcatccc tgttacaaca cgggcacctg tgggatgga gacaactggt accggtgcga 2880
 atgtgcccc gggtttgtct gggccgactg cagaataaac atcaatgaat gccagtcttc 2940
 acctgtgtcc tttggagcga cctgtgtgga tgagatcaat ggctaccggt gtgtctgccc 3000
 tccagggcac agtgggtgcca agtgccagga agtttcaggg agaccttgca tcaccatggg 3060
 gagtgtgata ccagatgggg ccaaattggga tgatgactgt aatacctgcc agtgccatgaa 3120
 tggacggatc gcctgtcaa aggtctgggt tggccctcga ccttgccctgc tccacaaagg 3180
 gcacagcgag tgcccagcg ggcagagctg catcccatc ctggacgacc agtgcttctg 3240
 ccacccctgc actggtgtgg gcgagtgtcg gtcttcagat ctccagccgg tgaagacaaa 3300
 gtgcacctct gactcctatt accaggataa ctgtgcgaac atcacattta cctttaacaa 3360
 ggagatgatg tcaccaggtc ttactacgga gcacatttgc agtgaattga ggaatttgaa 3420
 tattttgaag aatgtttccg ctgaatatcc aatctacatc gcttgcgagc cttccccttc 3480
 agcgaacaat gaaatacatg tggccatttc tgctgaagat atacgggatg atgggaaccc 3540
 gatcaaggaa atcactgaca aaataatcga tcttgttagt aaacgtgatg gaaacagctc 3600
 gctgattgct gccgttgtag aagtaagagt tcagaggcgg cctctgaaga acagaacaga 3660
 tttccttggt cccttgctga gctctgtctt aactgtggct tggatctgtt gcttgggtgac 3720
 ggccttctac tgggtgcctgc ggaagcggcg gaagccgggc agccacacac actcagcctc 3780

PA-0043 US

tgaggacaac	accaccaaca	acgtgcgggga	gcagctgaac	cagatcaaaa	accccatgga	3840
gaaacatggg	gccaacacgg	tcccatcaa	ggattacgag	aacaagaact	ccaaaatgtc	3900
taaaataaagg	acacacaatt	ctgaagtaga	agaggacgac	atggacaaac	accagcagaa	3960
agccccggttt	gccaaagcagc	cggcggtatac	gctggtagac	agagaagaga	agcccccaa	4020
cggcacgccc	acaaaacacc	caaactggac	aaacaaacag	gacaacagag	acttggaag	4080
tgcccagagc	ttaaaccgaa	tggagtagat	cgtatagcag	accgcgggca	ctgccgccgc	4140
taggtagagt	ctgagggcct	gtagttcttt	aaactgtcgt	gtcatactcg	agtctgaggc	4200
cgttgctgac	ttagaatccc	tgtgttaatt	taagttttga	caagctggct	tacactggca	4260
atggtagttt	ctgtggttgg	ctgggaaatc	gagtgcgcga	tctcacagct	atgcaaaaag	4320
ctagtcaaca	gtaccctggt	tgtgtgtccc	cttgacgcgc	acacgggtctc	ggatcaggct	4380
cccaggagcc	tgcccagccc	cctggctctt	gagctccac	ttctgccaga	tgctctaatt	4440
gtgatgcagt	cttagatcat	agttttat	atattttatt	actcttgagt	tgtttttcta	4500
tattggtttt	atgatgacgt	acaagtagtt	ctgtatttga	aagtgccttt	gcagctcaga	4560
accacagcaa	cgatcacaaa	tgactttatt	atattttttt	tttaattgta	tttttgttgt	4620
tgggggaggg	gagactttga	tgtcagcagt	tgtcggtaaa	atgaagaatt	taaagaaaaa	4680
aatgtcaaaa	gtagaacttt	gtatagttat	gtaaataatt	cttttttatt	aatcactgtg	4740
tatatttgat	ttattaactt	aataatcaag	agccttaaaa	catcattcct	ttttatttat	4800
atgtatgtgt	ttagaattga	aggtttttga	tagcattgta	agcgtatggc	tttatttttt	4860
tgaactcttc	tcattacttg	ttgcctataa	gccaaaatta	aggtgtttga	aaatagttaa	4920
ttttaaaaca	ataggatggg	cttctgtgcc	cagaatactg	atggaatttt	ttgtacgacg	4980
tcagatgttt	aaaacacctt	ctatagcatt	acttaaaaca	cgtttttaagg	actgactgag	5040
gcagtttgag	gattagttaa	gaacaggttt	ttttgtttgt	ntgttttttg	tttttctgct	5100
ttagacttga	aaagagacag	gcaggtgatc	tgtcgcagag	cagtaaggga	acaagttgag	5160
ctatgactta	acatagccaa	aatgtgagtg	gttgaatatg	attaaaaata	tcaaattaat	5220
tgtgtgaact	tgggaagcaca	ccaatcttac	tttgtaaatt	ctgatttctt	ttcaccattc	5280
gtacataata	ctgaaccact	tgtagatttg	attttttttt	ttaattctact	gcatttaggg	5340
agtattctaa	taagctagtt	gaatacttga	accataaaat	gtccagtaag	atcactgttt	5400
agatttgcca	tagagtacac	tgctgcctt	aagtgaggaa	atcaaagtgc	tattacgaag	5460
ttcaagatca	aaaaggctta	taaaacagag	taattctgtt	ggttcaccat	tgagaccgtg	5520
aagatacttt	gtattgtcct	attagtgtta	tatgaacata	caaatgcac	tttgatgtgt	5580
tgttcttggc	aataaatttt	gaaaagtaat	atttattaaa	tttttttgta	tgaaaacatg	5640
gaacagtgtg	gcctcttctg	agcttacgta	gttctaccgg	ctttgccgtg	tgcttctgcc	5700
accctgctga	gtctgttctg	gtaatcgggg	tataataggc	tctgcctgac	agagggatgg	5760
aggaagaact	gaaaggcttt	tcaaccacaa	aactcatctg	gagttctcaa	agacctgggg	5820
ctgctgtgaa	gctggaactg	cgggagcccc	atctagggga	gccttgattc	ccttggttatt	5880
caacagcaag	tgtgaatact	gcttgaataa	acaccactgg	attaatggc		5929

<210> 134

<211> 1919

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 337792.2

<220>

<221> unsure

<222> 757-779

<223> a, t, c, g, or other

<400> 134

cgcggggagc	tcagagtttc	cggggcactc	accgtgtgta	gttggcatct	ccgcgcgtcc	60
ggacacccga	tcccagcatc	cctgcctgca	ggactgttcg	tgttcagctc	gcgtcctgca	120
gctgtccgag	gtgctccagt	tggaggctga	ggttcccggg	ctctgtagct	gagtgggcgg	180
cggcacccgc	ggagatgcct	gggaagaagg	cgcgcaagaa	cgctcaaccg	agccccgcgc	240
gggctccagc	agagctggaa	gtcagagtgtg	ctactcaact	caggagattt	ggagacaaac	300
tgaacttccg	gcagaaactt	ctgaatctga	tatccaaact	cttctgctca	ggaacctgac	360
tgcataaaaa	acttgcagta	ggggactcct	tcaaaagagt	tttctcagga	ggtgcacgtt	420
tcatcaattt	gaagaaagac	tgcatgttaa	ttgagaggaa	tgtgaagggtg	cattcatggg	480
tgcccttgga	aacggaagat	ggaatacatc	aaagtgaatt	tctgttcaag	ttttcccaga	540
ttatcattct	ttgggatgag	agaacattat	aaaaccactt	tgtttatttt	aaagcaagaa	600

PA-0043 US

```

tgggaagaccc ttgaaaataa agaagtaatt attgacacat ttcttttttta cttagagaat 660
cgttctagtgt tttttgccga agattaccgc tggcctactg tgaagggaga tgacctgtga 720
ttagactggg cggtctgggga gaaacagttc agtgcannnn nnnnnnnnnn nnnnnnnnnng 780
ttttgctttt cagtgccaac tcagcacatt gtatatgatt cgggtttatac atattacctt 840
gttataatga aaaaactcat tctgagaaca ctgaaatggt atactcagtg ttgatttctt 900
cggtcactac acaacgtaaa atcatttggt tcttttgact caaattgtat tgcttctgtt 960
cagatgatct ttcattcaat gtgttcctgt tgggcgttac tagaaactat ggaaaaaact 1020
ggaaaataac tttgaaaaaa ttggataaag tataggaggg ttacttgggg ccagtaaadc 1080
agtagactga acattcaata taataaaaga acatggggat tttgtataac cagggataat 1140
aaaaagaaaa aagaagttaa tttttaattg atgtttttga aacttagtag aacaaatatt 1200
cagaagtaac ttgataagat atgaatgttt ctaaagaagt ttctaaaggt tcggaaaatg 1260
ctccttgatca cattagtgtg catcctacaa aaagtgtat cttaatgtaa attaagaata 1320
ttttcataat tggaaatatac ttttcttaaa aaaaaggaac agttagtctt catctagaat 1380
gaaagtccca tatatgcatt ggtgaatata tatgtataca catacttaca tacttatatg 1440
ggtatctgta tagataattt gtattagagt attatatagc ttcttagtag ggtctcaagt 1500
aagtttcatt ttttttatct gggctatata cagtcctcaa ataaataatg tcttgatttt 1560
atctcagcag gaataatttt atttattttg cctattttata attaaagtat ttttctttag 1620
tttgaaaatg tgtattaaag ttacattttt gagttacaag agtcttataa ctacttgaat 1680
ttttagttaa aatgtcttaa tgtaggttgt agtcacttta gatggaaaat tacctcacat 1740
ctgttttctt cagtattact taagattggt tatttagtgg tagagagttt tttttttcag 1800
cctagaggca gctattttac catctgggtat ttatgggtcta atttgtattt aaacatatgc 1860
acacataata aagttgatac tgtggcagta aactattaaa agtttttact gttaaaaaa 1919

```

<210> 135

<211> 6693

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 411135.1

<220>

<221> unsure

<222> 84, 86, 88, 92, 94, 6333, 6623, 6690

<223> a, t, c, g, or other

<400> 135

```

gggcagagcg ctagggctcc gagcgaacca gcgagcgagc gaacgagcgg cgctcggcgg 60
ggacagaaag atggagagag aganananat ananggagag gcgcggccgg gcgaggcggg 120
cccgctcggg agcgggctcc ggggaagggg tgcgggtctg ggccgcggag cggggagcgg 180
ggccgcgtcc ctctcagcgc cagctctact tgagcccccac gagccgctgt cccctggcgg 240
cgctcggggc cgcgggacgg gcgcacgccg ccttctccta gtcaagtatc cgagccgccc 300
cgaaactcgg gcggcgagtc ggccacggga agtttattct ccggtctcct ttctaaaagg 360
aagaaacaga agtttctccc agcggacagc ttttctttcc gccttttttg cctgtctga 420
aatcgggggt cccaggggt ggaggccag gctcgctggg ctctaatact ttttttaaat 480
ttccaatttt tgattggggt gtgggtcccc gctgagctcc ggctgcgcgc gggggcggga 540
gggcgcgcgc aggggagggg ccgagagacg cgccgacttt ttagagggag ggatcggttg 600
gacaactggt cccgcggcgc tcgcagagcc ggaaagaagt gctgtaaggg acgctcgggg 660
gacgctgttc ctgaggtgtc gccgctccc tgtcctcgcc ctccgcggtg ggggagaaac 720
ccaggagcga agcccagagc ccgcggcgcg gccggcggac gaacgagcgc gcagcagccg 780
gtgcgcggcc gcggcgaggg cgggggaaga aaaacaccct gtttctctc cgccccccac 840
cgcggtatcat gtaccaggat tatcccggga actttgacac ctgctcccgg ggcagcagcg 900
gctctcctgc gcacgccgag tctactcca gcggcgcgcg cgccagcag aaattccggg 960
tagatatgcc tgggtcaggc agtgcattca tccccaccat caacgccatc acgaccagcc 1020
aggacctgca gtggatggtg cagcccacag tgatcacctc catgtccaac ccataccctc 1080
gctcgcaccc ctacagcccc ctgcccgggc tggcctctgt ccctggacac atggccctcc 1140
caagacctgg cgtgatcaag accattggca ccaccgtggg ccgcaggagg agagatgagc 1200
agctgtctcc tgaagaggag gagaagcgtc gcatccggcg ggagaggaa aagctggctg 1260
cagccaagtg ccggaaccga cgccgggagc tgacagagaa gctgcaggcg gagacagagg 1320
agctggagga ggagaagtca ggccctgcaga aggagattgc tgagctgcag aaggagaagg 1380
agaagctgga gttcatgttg gtggctcacg gccagtggtg caagattagc cccgaggagc 1440

```


gccgatcgcc cccagccccc gggctgcagc ccatgcgcag tgggggtggc tcggtggggc 1500
 ctgtagtggg gaaacaggag cccctggaag aggacagccc ctcgccctcg tcggcggggc 1560
 tggacaaggc ccagcgctct gtcatacagc ccatcagcat tgctgggggc ttctacggtg 1620
 aggagccccc gcacaccccc atcgtgggtga cctccacacc tgctgtcact ccgggcacct 1680
 cgaacctcgt cttcacctat cctagcgtcc tggagcagga gtcacccgca tctccctccg 1740
 aatcctgtct caaggctcac cgcagaagca gtagcagcgg ggaccaatca tcagactcct 1800
 tgaactcccc cactctgctg gctctgtaac ccagtgcacc tccctcccca gctccggagg 1860
 gggtcctcct cgtcctcctc tcccagggac cagcaccttc aagcgctcca gggcctgtag 1920
 ggcaagaggg ggacctgcca ccaggagagt tccctggctct gggggaccca ggtgggactt 1980
 agcagtgagt attggaagac ttgggttgat ctcttagaag ccattgggacc tcctccctca 2040
 ttcatcttgc aagcaaatcc cattcttga aaagccttgg agaactcggg ttggtagact 2100
 tggacatctc tctggcttct gaagagcctt aagctggcct ggaccattcc tgtccctttg 2160
 ttaccatact gtctctggag tgatgggtgc cttccctgcc ccaccacgca tgctcagtgc 2220
 cttttggttt caccttccct cgacttgacc cttccctccc ccagcgtcag tttcactccc 2280
 tcttggtttt tatcaaattt gccatgacat ttcatctggg tggcttgaat attaaagctc 2340
 ttcatcttct gagatggggc agcaggtggc tcttctgctg gggctgactt gtccagaagg 2400
 ggacaaagtg caatacagag ccttccctac cctgacgcct ccagtcctc atctccagaa 2460
 ctcccagcgg ggctccctga gctctcaagg agatgctgcc atcactggga ggctcagagg 2520
 acccttctctg cccaccttcg gagacggctt ctggaggaaac ggcttggcca gaagacaggg 2580
 tgtgagttag acagtggggc acaggttggg tttgccaac gcctaattac caggccagga 2640
 agcatgccaa caaagccaca cgggtgtcct agccagcttc ccttcacctg gtgtcttgag 2700
 tagggcgtct cctgtaatta ctgccttgcc attctgcccc tggacccttc tctccggacc 2760
 agggaggcgt cctcccttag gagccacaca ttatactcca agtccctgcc gggctccgcc 2820
 tttccccac cctggctctc aggtgacgc caccacaga gatttaatga gcgtgggctt 2880
 ggaccttccc cagatgctgc caggcagccc ctcccgaag ctcaaagaag catttgctga 2940
 ggatggagag gcaggggagg gaggcgggag gccgtcactg gagtggcgct tgcagcagct 3000
 gctgccccag caccgctca gcctgtcctg gctgctcacc tccccgcagg gcaccggggc 3060
 tttcctgccc tctgtggtea tctgccacct gctggatcaa gtgctttctc ttttacactc 3120
 cctgtcccc accccagtgc actcttctgg ccaggcgggc ctgggttctc tgaacagctg 3180
 gcctgagctg tcgctgtggc ttgtggctca ttgcttccca ctgcaggaga gctgccccct 3240
 tctggctgct ggagtgggag tccccctggc ctccagcagg agcacagctc agcagggtcc 3300
 ttcacggggt tggggaaggg ccttttctcc ccagggtatg gctcctgctg agtttcttgt 3360
 ctgctgcccc ccttctgag atccaggagg tagctcctgg ccagaaccag cctctgcggg 3420
 ccagcagggc cttgacagga ctgctgctgg ggattcagct ctagaggtca cagtatcctc 3480
 gcttgctgctc taattaagat cccccgtgga gaaagcagtg acacattcac acagctgttc 3540
 gtttgaaaga tatttcatga acatgacctg ttttctgtca ctagacacac agagtggaa 3600
 cctgcgatgt ttaaagtaca tgggccagtg ggactggaag tgacctgtac aagtgatgca 3660
 agccgtatgc tttcaaagaa aaaggatttt gtttaaaata ctttaaaaaat gttatttctc 3720
 gaaaggaggg gctgtgatgc cctctccccg atttcccagg ggctctggga gggacccttc 3780
 gatcccttg taagaagatt gggcagttgg gtttctggct tgagatgaat ccaagcagca gaatgagcca 3840
 ggagtagcag gagatgggca aagaaaactg ggggtgactc agctctcaca ggggtaatca 3900
 tctcaagtgg tatttgtagc caagtgggag ctattttctt ttttgtgcat atagatatatt 4020
 cttaaatgaa gctgctttct tgtcttttat ttctaaaagc ccccttatac cccactttgt 4080
 gcagcaaaga tccccgtgca ggtcacagcc tgatttgtgg ccaggctgga caaattcctg 4140
 aggcaaacct tggcttcagt tcagatttca agctgtgttg gtgttgggac cagcagaagg 4200
 caaacgtcca gccaacacac aggactgtaa gaggactctg agctacgtgc cctgtgaaga 4260
 cccccaggct ttgtcatagg aggtcgttca gcttccccaa agtcagaggt gatttgattt 4320
 ggggaagact gaatattcac acctaatgct tgagcatatc ctgagtttta cttccttatg 4380
 gcttgccttc caagtctctc ctctcataca cacacacacc cttgctccag aatcaccaga 4440
 cacctccatg gctccagcta tgggaacagc tgcattgggg ctgcctttct gtttggctta 4500
 ggaacttctg tcttcttgt ggctccactc gcgaggcagc tcggagggtg ggactccgat 4560
 tgggctgcag gcagctctgg gacggcacag ggcgggcgct ctgatcagct cgtgtaaaac 4620
 acaccgtctt cttggcctcc tggccagtct ttctgcgaat agtccctccc ctggccagtt 4680
 gaatggggga agctctggc acaggaagga gaggcgatcc cggctgaggc ttaggaaatt 4740
 gctggagccg gctccaagca gataattcac tggggagggt ttacagagtc aacatcattc 4800
 tgcctgtgtt gggggccagg tgtgtcacac aagcatctca aagtcaaaag ccatctgggg 4860
 ctgctgcttc tctttctcag gctctgggga aaggaatctc cctctcctct cacttgattc 4920
 caagtgtggg tgaattgtct ggagcactgg gacttttttt ctcttttctc tgatggacca 4980
 acagtgcaaa tgcaatctcg ccatttaact ttcaggctga tttcctttcc tgatcagaca 5040
 tctttgtgcc cccttttagga aggaaaagaa tacacctacg atgtgccagg cactgtgtta 5100
 ggcgctttta tatagatcct cgtaggatg agactaaggg atgaggacat ctctttataa 5160

PA-0043 US

```

aagggccccta agtaatggat aaacagaaac acttagagggt gagaagggtct gtcttcaaga 5220
tccaagggtaa gattgccttc agtctgatgt ttgttctcaa ggacttatcc cctacaatat 5280
tctccacttc catacttctc cttctacccc accatgtgct cccgtgcact cctcagatgg 5340
tcagaggggt aacccaagtc cttagagaaat ttggggacca atagaatatg tgatgtgtga 5400
atcttcttta aaaaacttaa ggagtccttg ctaccttctg cttgttgagt tgttttggca 5460
ttcatattaa aagccagcat ctactatctt attgacagggt tgggctgtgt gtgtgcgcac 5520
gtgtgtatac atttccaggc gtgcctgtgt cctgtagctt tttaaaagga aaccagtcac 5580
tcccactatg aatctggcat cttcttatgc ttctagtgtt ttggccatac atcaaccaag 5640
gggtttaatt tatccaatgc ttgacgacat gttcaggagg ggctggatca aattttgaga 5700
gggttatggg aaagggaggg ggagaagaaa ttgacattta ttttattatt tattttaaat 5760
gtttaccttc tctttatggt gtatcaagcc tgaatagaaa ctgatagcat taaaatactc 5820
cgctcctctc tctcttctcg cttccttttt tttttttttt aaatttagga taacacattt 5880
ttgtttctaa agtgatttgt gatttgtgct gtataaactg tataaaagggt tctgttttta 5940
aaggtggatt ttcatctctc tggggacagt ggctcgccaag acatctacat tgtaagagaa 6000
cacagtggaa gatcctgtcc tgattctcaa aaattatttt ctctgtatga ttaaaagttt 6060
attccattta ttttagtttg tgtttacttg attttgagga agaaaatatt tgactttgtg 6120
taaagagtag ggtatcaggg tgtcttttct gccgtgggag atgtgtatat atatagtatt 6180
ttggtgtata gtagaaaata agctttgtgc atctgtatct gagatatgtt aatgacgtgg 6240
agtaaagtca gctgtaagac tctggaggca aacaagttgt atatggttca tatggctcta 6300
tggggaattt aattaccttt ctgggcactt ttnttttttt ttttttttaa gtaatgggtga 6360
aatgtgtccca ttggagatgc tcctaaatag accttccagg cagaaccgca agctcaaaat 6420
ctttgtatag ttttgaaaat tgaggagtag ctttgttttg aagcctttct ggtggtggtt 6480
tttgttgttg ttgttgtttt gttgttttac tatatgtaat acaagcctac agtatttgca 6540
ctaaagaaag cttgttagaa aaagcttgct gctatggaag aaagaacata ttaaaacttc 6600
tttcccttgc gatttttttg gngaggggg gttagcattt ccactttcag ttgagtagca 6660
ttttgtagaa taaaatgaat taagattgan aaa 6693

```

<210> 136

<211> 1481

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 441249.1

<400> 136

```

ggcaggagaa tttgaaaggg tgccccaag gacaatctct aaaggggtaa gggagatacc 60
taccttgtct ggtaggggag atgtttcgtt ttcattgctt accagaaaat ccacttccct 120
gccgacctta gtttcaaagc ttattcttaa tttagagaaa gaaacctgtt tcaacttgaa 180
gacaccgtat gaggtgaatg gacagccagc caccacaatg aaagaaatca aaccaggaat 240
aacctatgct gaacccacgc ctcaatcgct cccaagtgtt tctgacacg catctttgct 300
tacagtgcac cacaactgaa gaatgggggt caactgacg cttgcaaaat taccataata 360
cgagctgcac ggccaagaga gtcacaattc aggcaacagg agcgacgggc caggaaagaa 420
caccaccctt cacaatgaat ttgacacaat tgtcttgccg gtgctttatc tcattatatt 480
tgtggcaagc atcttgctga atggtttagc agtggtgatc ttcttcaca ttaggaataa 540
aaccagcttc atattctatc tcaaaaacat agtggttgca gacctcataa tgacgctgac 600
atttccattt cgaatagtcc atgatgcagg atttggacct tgggtacttca agttttattct 660
ctgcagatac acttcagttt tgttttatgc aaacatgtat acttccatcg tgttccttgg 720
gctgataagc attgatcgct atctgaaggt ggtcaagcca tttggggact ctcggtatga 780
cagcataacc ttcacgaagg ttttatctgt ttgtgttttg gtgatcatgg ctgttttgct 840
tttgccaaac atcatcctga caaatggtca gccaacagag gacaatatcc atgactgctc 900
aaaacttaaa agtccttttg gggtc aaatg gcatacggca gtcacctatg tgaacagctg 960
cttgttttgt gccgtgctgg tgattctgat cggatgttac atagccatat ccaggtagat 1020
ccacaaatcc agcaggcaat tcataagtca gtcaagccga aagcgaaaac ataaccagag 1080
ctcagggtt gttgtggctg ttttttttca ctgctttcta ccatatcact tgtgcagaat 1140
tctttttact tttagtctact tagacaggct ttttagatgaa tctgcacaaa aaatcctata 1200
ttactgcaaa gaaattacac ttttcttgct tgcgtgtaat gtttgcttgg atccaataat 1260
ttactttttc atgtgtaggt cattttcaag aaggctgttc aaaaaatcaa atatcagaac 1320
caggagtgaag agcatcagat cactgcaaag tgtgagaaga tcggaagttc gcatatatta 1380
tgattacact gatgtgtagg ctttttattg tttgttgga tcgatatgta caaagtgtaa 1440
aaaaatgttt cttttcatta aaaaaaaaa aaaaaaaaaa g 1481

```

PA-0043 US

<210> 137
 <211> 3332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 443244.2

<400> 137
 ttgtgcgctc gcggttctct cgcgagggtc ggcgggtgtgc gggagcgggc tccgtgagag 60
 cctgagagca cggtggggcg gggcgggaga aagtggccgc ccggaggacg ttggcggtta 120
 cgtgtggaag agcggaagag ttttgctttt cgtgcgcgcc ttcgaaaact gcctgccgct 180
 gtctgaggag tccacccgaa actccctccc tccgcgggca gccccggcgc tgagctcgcc 240
 gacccaagcc agcgtgggag aggtgggaag tgcgcccagc ccgcgcctgg agctgcgccc 300
 ccgagtcccc atggctacaa ggggtgctgag catgagcgcc cgcctgggac ccgtgccccca 360
 gccgcgggag ccgcaggacg agccggtggt cgcgagctc aagccgggtg tgggcgcccgc 420
 gaatccggcc cgcgacgcgg cgctcttccc cggcgaggag ctgaagcacg cgcaccaccg 480
 cccgcaggcg cagcccgccg ccgcgcaggc cccgcagccg gccagccgcg ccgccaccgg 540
 cccgcggctg cctccagag acctgggtcca gacaagatgt gaaatggaga agtatctgac 600
 acctcagctt cctccagttc ctataattcc agagcataaa aagtatagac gagacagtgc 660
 ctacgtcgta gaccagttct tctactgacac tgaagggtta ccttacagta tcaacatgaa 720
 cgtcttctct cctgacatca ctacactgag aactggcctc taaaaatccc agagaccgtg 780
 cgtaacacac atcaagacag aacctgttgc cattttcagc caccagagtg aaacgactgc 840
 cctcctccg gccccgaccc aggcctccc tgagttcacc agtatattca gctcacacca 900
 gaccgcagct ccagagggtg acaatatatt catcaaaaaa gaacttccca caccagatct 960
 tcatctttct gtccctaccc agcagggtcca cctgtaccag ctactgaata caccggatct 1020
 agatatgccc agttctacaa atcagacagc agcaatggag actcttaatg tttctatgtc 1080
 agtgcgcatg gcaggcctta acacacacac ctctgctggt ccgcagactg cagtgaacaa 1140
 attccagggc atgccccctt gcacatacac aatgccaaagt cagtttcttc cacaacaggc 1200
 cacttacttt ccccgctcac caccaagctc agagcctgga agtccagata gacaagcaga 1260
 gatgctccag aatttaaccc cacctccatc ctatgctgct acaattgctt ctaaactggc 1320
 aattcacaat ccaaatttac ccaccaccct gccagttaac tcacaaaaca tccaacctgt 1380
 cagatacaat agaaggagta accccgattt ggagaaacga cgcattccact actgcgatta 1440
 ccctgggtgc acaaaagttt ataccaagtc ttctcattta aaagctcacc tgaggactca 1500
 cactggtgaa aagccataca agtgtacctg ggaaggctgc gactggagggt tcgcgcgac 1560
 ggatgagctg acccgccact accggaagca cacaggcgcc aagcccttcc agtgcgggggt 1620
 gtgcaacdcg agcttctcgc gctctgacca cctggccctg catatgaaga ggcaccagaa 1680
 ctgagcactg cccgtgtgac ccgttccagg tccctggggc tccctcaaat gacagacct 1740
 actattcctg tgtaaaaaca acaaaaacaa aaaaaaacaa gaaaaccaca actaaaactg 1800
 gaaatgtata ttttgtatat ttgagaaaac aggggaataca ttgtattaat accaaagtgt 1860
 ttgggtcatt taagaatctg gaatgcttgc tgtaatgtat atggctttac tcaagcagat 1920
 ctcatctcat gacaggcagc cacgtctcaa catgggtaag ggggtgggggt ggaggggagt 1980
 gtgtgcagcg tttttacctt ggcaccatca tttaatgtga cagtgttcag taacaaaatc 2040
 agttggcagg caccagaaga agaattgatt gtatgtcaag attttacttg gcattgagta 2100
 gtttttttca atagtaggta attccttaga gatacagtat acctggcaat tcacaaatag 2160
 ccattgaaca aatgtgtggg tttttaaaaa ttatatatat atatgagttg cctatatattg 2220
 ctattcaaaa ttttgtaaat atgcaaatca gctttatagg tttattacaa gttttttagg 2280
 attcttttgg ggaagagtca taattctttt gaaaataacc atgaatacac ttacagttag 2340
 gatttgtggg aaggtaacct tcaacattac caaaatcatt tcttttagagg gaaggaataa 2400
 tcattcaaat gaacttttaa aaagcaaat tcatgcactg attaaaatag gattatttta 2460
 aatacaaaag gcattttata tgaattataa actgaagagc ttaaagatag ttacaaaata 2520
 caaaagttca acctcttaca ataagctaaa cgcaatgtca tttttaaaaa gaaggactta 2580
 ggggtgtcgt ttacatatag acaatgttgc atttatgat agatgttcgc tcgtgcagta ctgttggtta 2700
 aatgacaatt tatgtggatt tcatatctgc tacacagtga gacacagtaa ttttatctaa 2760
 attacagtgc agtttagtta atctattaat actgactcag tgtctgcctt taaatataaa 2820
 tgatatgttg aaaacttaag gaagcaaatg ctacatatat gcaatataaa atagtaatgt 2880
 gatgctgatg ctgttaacca aagggcagaa taaataagca aaatgccaaa aggggtctta 2940
 attgaaatga aaatttaatt ttgtttttta aatattgttt atctttattt attttgttgt 3000
 aatatagtaa gtttttttag aagacaattt tcataacttg ataaattata gttttgtttg 3060
 ttagaaaagt tgctcttaaa agatgtaaat agatgacaaa cgatgtaaat aattttgtaa 3120

PA-0043 US

```
gaggcttcaa aatgtttata cgtggaaaca cacctacatg aaaagcagaa atcgggttgc 3180
gttttgcttc tttttccctc ttatttttgt attgtgggtca tttcctatgc aaataatgga 3240
gcaaacagct gtatagttgt agaatttttt gagagaatga gatgtttata tattaacgac 3300
aatttttttt tggaaaataa aaagtgccta aa 3332
```

<210> 138

<211> 4591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 462057.1

<400> 138

```
ctgagtcttc cgtgtgtcgc cgccgttgcc gcctcagctt cagcctcggt actcctgcgg 60
ttctgtggct gtgctgctgg cgttaacggc gcgaggtgaa gggaggtgac ggagtgtgcc 120
cgcgcgcgcg ggggtcccct cagtcccagc agttcccctc gtgcgcgggg ggcggcgagg 180
gtcttcagca gtcgggagag gcccttgacg gcgccatgtc ggcggggcgg ccatgcccag 240
cagcagccgg agggggccca gggggcgcc cctgctccgt gggggcccct ggcgggggtat 300
ccatgttccg gtggctggag gtgctggaga aggagttcga caaagctttt gtggatgtgg 360
atctgctcct gggagagatc gatccagacc aagcggacat cacttatgag gggcgacaga 420
agatgaccag cctgagctcc tgctttgcac agctttgcca caaagcccag tctgtgtctc 480
aaatcaacca caagctggag gcacagttgg tggatctgaa atctgaactg acagaaaccc 540
aagcagagaa agttgttttg gagaaagaag tacatgatca gcttttacag ctgcactcta 600
ttcagctgca gcttcatgct aaaactggtc aaagtgtgta ctctggtacc attaaggcaa 660
aattgtctgg cccctctgtg gaggagctgg aaagagagct tgaggcaaac aaaaaagaaa 720
aaatgaaaga agcacaactt gaagctgaag tgaaattggt gagaaaagag aatgaagccc 780
ttcgtagaca tatagctggt ctccaggctg aagtatatgg ggcgagacta gctgccaaagt 840
acttgataaa ggaactggca ggaagggtcc aacagataca attgctagga cgagatatga 900
agggacctgc tcatgataag ctttggaaac aattagaagc tgaaatacat ttgcatcgtc 960
acaaaactgt gatccgagcc tgcagaggac gtaatgactt gaaacgacca atgcaagcac 1020
caccaggcca tgatcaagat tccctaaaga aaagccaagg tgttggtcca attagaaaag 1080
ttctcctcct taaggaagat catgaaggcc ttggcatttc aattacaggt gggaaagaac 1140
atggtgttcc aatcctcatc tctgagatcc atccggggca acctgctgat agatgctggag 1200
ggctgcacgt tggggatgct attttggcag tcaacggagt taacctaaag gacacaaagc 1260
ataaagaagc tgtaactatt ctttctcagc agagaggaga gattgaattt gaagtatttt 1320
atgtggctcc tgaagtggat tctgatgatg aaaacgtaga gtatgaagat gagagtggac 1380
atcgttaccg tttgtacctt gatgagttag aaggaggtgg taacctgggt gctagtgtga 1440
aagacacaag tggggaaatc aaagtattac aaggatttaa taagaaggca gtaactgaca 1500
cacatgaaaa tgggagacct ggcactgcaa gtgaaactcc gctagatgac ggtgcttcaa 1560
aattagatga tctgcacact ctgtatcata aaaaatctta ttaaattgac catatctcca 1620
gacaagattg ttaatcagac tattctgaat ttggggcact ggggaagatg gtgacaaaga 1680
ctacaaaatc aggggaggct gtttgttgcc taaatgaaag gcgggtacct cagggcttca 1740
tgtgaacaat tctcaatgca taaaacaccc tgttttctgt ggtagaccat aattagctat 1800
tgcatgtaaa gcaatttttg ttttcttgaa ctgtgaagca ccaaagcatg tgtttcccaa 1860
aggggtatta ctgggctctt aagtaccaaa ctgttttact tggttccttt 1920
tccctttagt aggaggacag tgctaactgg aattttataa ggagtaccct ttaaaataca 1980
gagagtaagt gaattcata tttatattct agaattgtaa ctgtggtatt tcagaagaca 2040
gagcttgact caatgaattg tagaaatata ggcttgactt aatttttgta actgaaaggc 2100
tttagactta aaaaaattta ttgtgcatcc taaaatctaa accaattatt aatgatcatt 2160
tattgtaatg agtttgcatc tcagctttat tcaatgcagt acaaaatagt tttctttaag 2220
cagtctttta tcaatcaatg ctgcactaga aatagattct caaaagttac taaacatttt 2280
actttttttg ttttttaaaa gaaatgcaga tgagtgtaaa acatctgttc tcaattatgt 2340
tgatctgtgt gcgcagtact ggagcattta cccattcatg ttgagcctca aatgcttgtt 2400
ttctggggtc cacaaaagac agtttttatac attttgagtt gttcataaag tttgtcttgt 2460
gatagtccct gcacttaaag acaaattttt ctggtagtaa aagttcagat ttattactat 2520
gtcatgaaac acagtacatt caaatcaaac ggcagttttc tttctaagta aatgatttcc 2580
agtcacttaa aagggtgggca agatgagata aagacatttt gatcacgtaa ttgttttggg 2640
tgggttttca tgtcagttta tgtttgacta aagctctctt catatgcagg tttataaatt 2700
tgttaggtct gttgtcccat gattaaacat ggagtgcctc ctctctgatt taatattctg 2760
caggtcattg taacctgcta ggcaaagtca caacattgca ttaaagaggt gatagctttg 2820
```

PA-0043 US

ctaatatcac	tgttttaaaag	gacgtacagt	taaaggaata	ttaagtggga	gaaagcctac	2880
aaggctttta	gaatattatc	agtatcttca	tttctgggat	tcagatgtta	tgtgataaaa	2940
cacatttttt	ttggcctttcc	cagatacact	atataatgtt	tcaagggtaa	atctataaaa	3000
tgtatatact	ttattttgtg	gttttgcctat	ttataaat	aatgttttaa	ctgttgctca	3060
tttatgggtt	gttttgggtg	gtgggtgttca	tctgtatata	accatgttaa	tttgtaatgg	3120
aagtgcactt	cgtagtgtat	attgttactg	acattaaaat	actttatagc	attgtctctg	3180
agcaaaagct	agtatttaaat	tgtacaaaatg	aataagcaag	ttacatgtta	ttgtttgctc	3240
ttgacagggt	aggcctctta	aaagaaaaaa	aacaacttgt	tttttcttta	tgaatcccct	3300
atgccaaaca	cataccttcc	atgcatgaca	tgagatctgc	aaactggatt	ttagccaccg	3360
tattttattta	gtcaaaaaaa	ttgtccattg	tagcagaccc	gaaaaccttt	ttgctgtgac	3420
atgaaacctat	gttattctta	tcttcttaaa	acacagcctg	ggatgggaatg	gccatggcat	3480
tttttttcaga	gaacatccctt	tatctgctat	gactgaaatcc	ttaggaaatg	taagctataa	3540
cccttttgatt	ttcaagaact	accgaataag	tgtatgaaga	gggtggttttt	taaaacttca	3600
agttggaatt	tttatgaggt	cactgtgtta	tttgaagaat	tgtgtgagat	tgtcatgata	3660
taaattcctt	ttaaggactg	ataaatagaa	tgaaaagt	ccaggtagtt	taaaactcca	3720
caggtcagtt	tccttttcat	tcctgcttca	ctgtgggtta	taagcctacg	ggagagcacc	3780
gttgctcaga	tgctactgtg	agcttcctgt	ccggtgttag	aaagtaacta	gttaaaagtt	3840
catttttagaa	tgtatgggtt	ttggggatga	actaagaatt	agttattagt	tccaaaggac	3900
tgagaaccaa	ttttaatat	ttcacattta	taggaaagaa	attcatatgt	ccctgaaact	3960
tctaggacaa	aaccaaaaca	gtaaggagg	aactgttgca	aagccatttc	atcgagaagg	4020
ggacagaagg	agaaatacac	acatgtatac	acaaacagaa	tggttgagaa	aacgttttaa	4080
taaaatgtga	gggttgtatg	tgtgcgtgta	tatatattaca	cttaacctct	aaaattctct	4140
tctacagtat	ctctgttatg	aatatgatgg	aaaagcaaca	ttttgggtgg	gagactattg	4200
ttaaaataaa	tttgagaaag	acgaaaattt	tgtgagtcct	gataattaca	agtcaacagc	4260
tatcgaaagt	tagcacagct	tgtctgtggt	gctgtttttt	tccccactgc	agtggactta	4320
tgctgttttc	atgttttagaa	acaaaaaggt	ttcatgtgat	tcattgtgta	gatgcacagt	4380
atgttgacatc	ctgattatgt	aatccctatt	ccatctatcc	agtcttacac	ttatggttgg	4440
cctcaaattct	attgcattta	tgataatgta	ttatatctag	ttgagtttaa	tattttttta	4500
ttagcctgta	aataaagatg	gcattcttca	cattaaaaatg	atattgatct	cattttttta	4560
aataaacatt	ttgttttcctt	gacgttaaaa	a			4591

<210> 139

<211> 9591

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 474673.1

<220>

<221> unsure

<222> 8681

<223> a, t, c, g, or other

<400> 139

ccgcggtgag	ccgcgaggaa	gagaggcgag	cgagagtggg	ggaggaggcg	gcggctgcgg	60
gacgggtccc	aggaatgtcg	ctgccccccc	ccccctgcc	gttgaggagg	agacggaggga	120
gaccgacgtt	gttaggggaag	atgatcccta	tgatcttgaa	gatgtttctg	cacagaaatg	180
agggaataac	aaagaaccaa	atacagttct	aaatttggga	tctgtatttt	gagatgattt	240
tatttttcaga	atgagaagca	tatctgggta	cctttatgaa	tgtagagaca	tgagaagaga	300
gttatgatgg	caaaaaacaa	agagcctcgt	cccccatcct	ataccatcag	tatagttgga	360
ctctctggga	ctgaaaaaga	caaaggtaac	tgtggagttg	gaaagtcttg	tttgtgcaat	420
agatttgtac	gctcaaaagc	agatgaatat	tatccagagc	atacttctgt	gcttagcacc	480
attgactttg	gaggacgagt	agtaaacaaat	gatcactttt	tgtactgggg	tgacataata	540
caaaatagtg	aagatggagt	agaaatgcaa	attcatgtca	ttgaacaaac	agagttcatt	600
gatgaccaga	ctttcttgcc	tcacgagagt	acgaatttgc	aaccatata	aaaacgtgca	660
gctgcatcta	aattgcagtc	agcagaaaaa	ctaattgtaca	tttgactga	tcagctaggc	720
ttagaacaag	actttgaaca	gaagcaaatg	cctgaaggga	agctcaacgt	agatggattt	780
ttattatgca	ttgatgtaag	tcaaggatgc	aataggaagt	ttgatgatca	acttaaat	840
gtgaataacc	tttttgtcca	gttatcaaaa	tcaaaaaaac	ctgtaataat	agcagcaact	900
aaatgtgatg	aatgcgtggg	tcattatctt	agagaagttc	aggcatttgc	ttcaaataaa	960

aagaaccttc ttgtagtggg aacactcagc gcaataaaaag tcaacattga aacatgtttt 1020
actgcactgg tacaaatggt ggataaaact cgtagcaagc ctaaaattat tccctatttg 1080
gatgcttata aaacacagag acaacttggt gtcacagcaa cagataagtt tgaaaaactt 1140
gtgcagactg tgagagatta tcatgcaact tggaaaactg ttagtaataa attaaaaaat 1200
catcctgatt atgaagaata catcaactta gagggaaaca gaaaggccag aaatacattc 1260
tcaaaacata tagaacaact taaacaggaa catataagaa aaaggagaga agagtatata 1320
aatactttac caagagcttt taacactctt ttgccaaatc tagaagagat tgaacatttg 1380
aattggtcag aagcttttgaa gttaatggaa aagagagcag atttccagtt atgtttttgtg 1440
gtgctagaaa aaactccttg ggatgaaact gaccatatag acaaaattaa tgataggcgg 1500
attccatttg acctcctgag cacttttaga gctgaaaaag tctatcagaa ccatgtacag 1560
catctgatat ccgagaagag gaggggtggaa atgaaggaaa aattcaaaaa gactttggaa 1620
aaaattcaat tcatttcacc agggcagcca tgggaggaaag ttatgtgctt tgttatggag 1680
gatgaagcct acaaatatat cactgaggct gatagcaaaag aggtatatgg taggcatcag 1740
cgagaaatag ttgaaaaagc caaagaagag tttcaagaaa tgctttttga gcattctgaa 1800
cttttttatg atttagatct taatgcaaca cctagtctcag ataaaatgag tgaaattcat 1860
acagttctga gtgaagaacc tagatataaa gctttacaga aacttgcacc tgatagggaa 1920
tcccttctac ttaagcatat aggatttggt tatcatocca ctaaagaaac atgtcttagt 1980
ggccaaaatt gtacagacat taaagtggag cagttacttg ctagtagtct ttacagttg 2040
gatcatggcc gcttaagatt atatcacgat agtaccaata tagataaagt taaccttttt 2100
attttagggg aggatggcct tgcccaagaa ctagcaaatg agataaggac acaatccact 2160
gatgatgagt atgccttaga tggaaaaatt tatgaaactg atcttcggcc ggttgatgcc 2220
aaatgcctt actttttgag tcagttatgg actgccgct ttaaaccaca tgggtgcttc 2280
tgtgtattta attccattga gtcattgagt tttattgggg aattttattg gaaaataaga 2340
actgaagctt ctcatagcag aaaagataaa tacatggcta atcttccatt tacattaatt 2400
ctggctaate agagagattc cattagtaag aatctacca ttctcaggca ccaagggcag 2460
cagttggcaa acaagttgca atgtcctttt gtagatgtac ctgctggtag atatcctcgt 2520
aaatttaatg aaacccaa atagcaagct ctacaggagg tattggaatc agttaaacac 2580
aatttgatg tggtgagccc aattcctgcc aataaggact tatcagaagc tgacttgaga 2640
attgtcatgt gcgccatgtg tggagatcca tttagtgtgg atcttattct ttcacctttc 2700
cttgattctc attcttcag tgcgtctcaa gctggacaga ataattccct aatgcttgat 2760
aaaatcattg gtgaaaaaag gaggcgaata cagatcacaa tattatcata ccactcttca 2820
attggagtaa gaaaagatga actagttcat gggatatata tagtttactc tgcaaaacgg 2880
aaagcttcga tgggaatgct tcgagcattt ctatcagaag ttcaagacac cattcctgta 2940
cagctggtgg cagttactga cagccaagca gatttttttg aaaatgagge tatcaaagag 3000
ttaatgactg aaggagaaca cattgcaact gagatcactg cttaaatttac agcactgtat 3060
tctttatctc agtatcatcg gcaaactgag gtctttactc tgttttttag tgatgttcta 3120
gagaaaaaaa atatgataga aaattcttat ttgtctgata atacaaggga atcaaccct 3180
caaagtgaag atgtttttct accatctccc agagactgtt tccctataa taactaccct 3240
gattcagatg atgacacaga agcaccacct ccttatagtc caattgggga tgatgtacag 3300
ttgcttccaa cacctagtga ccgttccaga tatagattag atttggagg aaatgagtat 3360
cctattcata gtaccccaaa ctgtcatgac catgaacgca accataaagt gcctccacct 3420
attaaaccta aaccagttgt acctaagaca aatgtgaaaa aactcgatcc aaacctttta 3480
aaaacaattg aagctggtat tggtaaaaat ccaagaaagc agacttccc ggtgcctttg 3540
gcacatcctg aagatatgga tccttcagat aactatgcgg aaccattga tacaattttc 3600
aaacagaagg gctattctga tgagatttat gttgtcccag atgatagtca aaatcgtatt 3660
aaaattcgaa actcatttgt aaataacacc caaggagatg aagaaaatgg gttttctgat 3720
agaacctcaa aaagtcatgg ggaacggagg ccttcaaat acaaatataa atctaaaacc 3780
ttgtttagta aagccaagtc atactataga agaacacatt cagatgccag tgatgatgag 3840
gctttcacca cttctaaaac aaaaagaaaa ggaagacatc gtggaagtga agaagatcca 3900
cttctttctc ctgttgaaac ttggaaaggt ggtattgata atcctgcaat cacttctgac 3960
caggagttag atgataagaa gatgaagaag aaaaccaca aagtgaaga agataaaaag 4020
cagaaaaaga aaactaagaa cttcaatcca ccaacacgta gaaattggga aagtaattac 4080
tttgggatgc ccctccagga tctggttaca gctgagaagc ccataccact atttgttgag 4140
aaatgtgtgg aattttattga agatacaggg ttatgtaccg aaggactcta ccgtgtcagc 4200
gggaataaaa ctgaccaaga caatattcaa aagcagtttg atcaagatca taatatcaat 4260
ctagtgtcaa tggagaatac agtaaatgct gtagctggag cccttaaaagc tttctttgca 4320
gatctgccag atcctttaat tccatattct cttcatccag aactattgga agcagcaaaa 4380
atcccgata aaacagaacg tcttcatgcc ttgaaagaaa ttgttaagaa atttcatcct 4440
gtaaaactat atgtattcag atacgtgata acacatctaa acagggttag tcagcaacat 4500
aaaatcaacc taatgacagc agacaactta tccatctgtt tttggccaac cttgatgaga 4560
cctgattttg aaaatcgaga gtttctgtct actactaaga ttcatcaatc tgttgttgaa 4620
acattcattc agcagtgatc gtttttcttt tacaatggag aaattgtaga aacgacaaa 4680

```

attgtggctc ctccaccacc ttcaaaccce ggacagttgg tggaaaccaat ggtgccactt 4740
cagttggcgc caccattgca acctcagctg atacaaccac aattacaaac ggatcctctt 4800
ggattattat gattaggaag tgattgcaaa caggctggat ttggacaaaa agcaaactta 4860
gacatgcatg ttccagggtt cagtagtata cttcatgttt catacagata attcacattc 4920
aaaattacat ttctctcttg aactagatgg tattccttat tcacttacat taaaaactta 4980
agaccatgtg ataagcatga ctggagaggt ttaattttta taaacaaaaa tagctataaa 5040
gtacaaagct gctgctgcat gcaaccttat tgcaatcagt atatcattcc tgtggcaatt 5100
tctgtcacct tatattgtga ataaaaat tctatagaaa ttaaattgatt taaaaactca 5160
cctatatgaa acatttaatg cttttcagcc tgccttctgg ctgattttgt tatttgatgt 5220
gctaatttgg gcaacttaat ttacattctg gcagtcgggtg tagataacta aaagcccagt 5280
taagtatttt ataatttcag gctactgagg ccatgcttgg gatgttggtt gaaagaaaga 5340
aaaaatacac ttgacatatt tcacatttct gtaccttcat ctttacttcc aagtaaacc 5400
gtggatgatt tgatgagggg taaatgaacc tatttctttt acacacatac caaggacatg 5460
cttgtggcta aagtgagttg ataagtgtgt gcaaaggata gttgtcacca actcatttct 5520
ttatgggtcca taatgaaata aaaattttgt atactgttaa ttctgtaaac agatgcatgt 5580
tcaaaagatc tatgatggtc ttgtaatctt aatctaatat atttttagata ttttaatttt 5640
ttccctcttg gggaacacat ttagtatagt gtagaaaata cttccatgac attttcatat 5700
aaggttatat aacttttcat acataaacat gaaatttgtt gtagaaaatt ctttaaacca 5760
aacattttaa tctaggactt caatttaatt tgttccctga atctattttt atgtggccct 5820
taaaaaatat ccaaaaaacc cattgctaatt atagcaataa aaatactttg ggtactgaca 5880
gactcttttg agtggtttata ttacaaattt gtattcatat tcttttctgt gatgtgtgt 5940
actaaaatcc aaaatggcct ttgcaccatt tttaagccaa ttttttctct tgatgttggt 6000
accagaatta ctataagtga ctgctgcttt tgggggtaaa cattttgtta gtgaagataa 6060
aaccagaaca cttaaattat gataaaattt tcagaatagg tggcacaggt aaatttcact 6120
aggttatatt ttgtgtagta aagaaaaaaa ttatttggtc aatgttatct taattcatal 6180
tacaatttaa gattatctta tgtgtattat agtaaataga tgattttcag attcaaggct 6240
cctaagagtt tgatttgctc tgttttttcc taaaataaat attgtctctc ccaactgtta 6300
agttctaggt attgtacttc caattttaac ttcagaacca agatgttggc atgaaccagg 6360
ctgctgttga agtacatgta tattataaatt tatcttattt gtgttatact cttacatggt 6420
atcttttcta agaaaaacaaa gtccctatta ttccctattg aaagcacaca ggaattaaga 6480
aagtacagta atttttaaaa aaaaatccgg taaatgtagt attcttaacc tgttctatat 6540
tacttatacc tattgtctat atagctttta ttatagttg tcagtttaac tattggcatg 6600
tctggcaaaag aaaattaaac tttaagagtt ttataaactg tttctagggt gctaaagaat 6660
ttatttttct actatatatg gtatagacaa agcatcaaac tatgtacagg aaaaaagcct 6720
gactatttct atttggaagt aggtgaaaa gagaattttc aaaactgttc gtgtcttcag 6780
ttcattctgt cataactttg ctattgtaat atgtgaatac cagtttattt aagctgttct 6840
cttttatact gtatttaatt aatgttcac tgcgtttagt accatttttg ttattaaac 6900
tggcatttac cgtttttcac attaacccac cttgcacctt ccccaaaact tatctccact 6960
ttctatgca ttctatcatt gatttgacac acttcatagt gagtcattta aatactctac 7020
gtttggttca attaaccagt aggttacagt tattgaaaat taaagtacag tttaaagctc 7080
agtctgttac actgaattga ttgtgtttgt ttttgccaag ggtttagata tgctttttaa 7140
tattagaaac atctaagaac agaataacat aattaaactt ttttctggta agttactgga 7200
aggtttcact gtttagggac ctatcatatg agacttctta aaggattaaa agaataggat 7260
agtctcataa ttgtgagtaa acatcaaggc atttatattt acaatactga ataaaaattt 7320
atctacacac atgttgccat tgtttcattt aaggttcagt gcttatagtt aactacaata 7380
ttggacctaa caggatctag attagcaata taaagaagca tagtggtact ctgtttcaca 7440
ctttcagtag atttattaga agtcaaatc tattcaacag acacttatta ggatatacaa 7500
ctaatttaag aataaaattc caggcacaat atattttttt taaatggtat ttgttagtag 7560
tgcttcttcc ccttaacatt tacagtgtaa atactgcagg taaccgcaat ctaagttagc 7620
caaaaagcag ctttttttcc catactgtat gtaaataatg tagacctggg tttttttgtt 7680
tatttggtt tgtttttttt ttttgaggta ctggaatcta attaatatct cttaggatat 7740
aacaaaaggg aacaattgga atgagaattt aggccttagc ttccatgggt atttttagtt 7800
ttttatacag taataattgt gatgctattt gtcaactgga tataaataca catataattt 7860
taaaaagtca aaagtgcctt tgtttctttg ttttaatgta tttttgtgt tcacctacag 7920
gatgctgcat taaattaaat atcagtgaag ctctctgatg ataaagaatg ctatgaataa 7980
aacattaaag agctgtgtaa ttttaagtta tagttgcctc tatttttacc atttcatttg 8040
taaaaattag ctaatttttt tcaagtgaat tgaataataa aaatataaat ttatcaatat 8100
gatggaaatc ttattaagga gatgtattat tgaattttca ctgtacctga aaaggagatt 8160
caaaattttt tctgggggatg tatataggtg aaaatttgat tttttaaatt atcaggaaaa 8220
caagataatg cacagatttc taagactaag atcttacctg gatgtgattt ttgagctgtg 8280
gctagacatt ctttagagcc actggaaata ttttgaaaac tattctagtt atagcagagc 8340
tgctaataat aacgaatata tttgtgtctt catggtttgt gactattagg ccaaaatttt 8400

```

PA-0043 US

tggtatatgt	tgtcagtcctg	gatctgggtga	ggctctgttca	acatgaatct	ttgtgttatc	8460
ttgaatttag	tagtttcaag	gtactttaa	tcttaacagt	ttctaatttg	tttcaataca	8520
tatgggacat	ggttgatttt	tttactgtat	tagaactctt	ggaagttctt	agccttttca	8580
ggttatgaaa	tacctgaaa	taaaattttc	taagatttaa	taagggaaga	tactattcaa	8640
atcattttct	taggatagca	tctttacata	caatgagagg	nttgtagaag	cattaatctc	8700
atattccaac	atcaagttac	ttgatgtgat	ccaagtaccc	tgggtctttt	gaagcagtta	8760
aaatctaatt	aattaacttt	gggagtcctt	actattcaat	tgatcctcat	cattgtccta	8820
tttgcacgac	tccatttttt	cctccactat	atgagttttc	tttgtcaggg	ggagaggagt	8880
gggaagagtc	acagaatctc	atattcacat	cttaattaaa	ttgtgtgaaa	ttagtctttt	8940
gtggaaattc	tgtaggcagt	atgattttga	aaagctaacc	aatgataatt	agcattttag	9000
ttataactaa	atgcataaaa	ttataaccct	tgaataat	ttgggtgctg	cagttctggg	9060
ttagtctatt	ttaccagtag	ttagtagtat	taagacctgc	agtatatgca	ctttttgagt	9120
agctgtcaaa	taattgtagt	tgagaaacaa	cttgttttatt	ctcacaattc	agatttttcta	9180
ttcagttttg	tctcaaata	taagttattg	tgaacaattt	aataacggcc	ctcctgttct	9240
agtttgacct	atatttttag	taagatttag	tgttttaacc	tattttttta	agtttttttt	9300
ttgtattaga	ttttatttga	ataagttatg	tgggttttag	aattgacct	tttattcatt	9360
gcttcaacta	ttcatccaga	ttagttttaa	gtgtgtatat	gtatttgctc	accagatcat	9420
tttcttggga	ccttgaactg	tgaatgtttt	gtcctaacca	tttaatat	tctaggtact	9480
tgctgcaagt	tcttgaacta	ttttaccagc	tttaactttg	gggctcttag	tttcttttct	9540
ccagattctt	gttattttat	tttatccaaa	taaatat	ggtgttctaa	g	9591

<210> 140

<211> 6364

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 475283.17

<400> 140

agatgaagg	gtgggtctat	ggtacatcac	ctgagttgtg	gggtaaatgt	agagagtgtc	60
aatcaaagg	agagctctca	gagctgggaa	ggaggctcta	gatggcggct	gtgccttaga	120
gagagcgcg	tctgctccct	gcctttgcct	cactttacgc	aactttccct	aactttcggg	180
cagcctcagg	gggcccccg	agccccctgc	ctttcctagg	gacttactgg	ggtcgattcg	240
aacctttttt	tgggagaaaa	gcagctttta	ggagctttct	tttcgtgcct	tgttggaaag	300
aagcagccgt	actgagagcc	caggtcggtg	ttttttccag	cttagaagcc	atggcgccacc	360
tccatttttt	tgcgctctcc	taatgaggtt	ttttttcttt	cggacctggt	ttagtattaa	420
ttattgcttt	atttttttga	ccagtttaaca	tatttgaggg	ttatttttatt	tatttttctg	480
tttttaacgg	aggattttgc	ctttattttt	aattatttgg	gatctgatat	ttttctacta	540
gtagatagga	ctcttggttt	ggacatacta	catggatcag	taaataacct	ggcacaggac	600
ttcaaagcaa	acacagattc	cccctcccc	ttaatattta	agaattaaaa	gatgatgaga	660
aataaggaca	aaagccaaga	ggaggacagt	tgcgtacaca	gcaatgcac	gagtcactca	720
gcctctgaag	aagcttcggg	ttcagactca	ggcagtcagt	cggaaaagtga	gcagggaagt	780
gatccaggaa	gtggacatgg	cagcgagtgc	aacagcagct	ctgaatcttc	tgagagtccg	840
tcggaatctg	agagcgaatc	agcaggttcc	aaatcccagc	cagtcctccc	agaagccaaa	900
gagaagccag	cctctaagaa	ggaacggata	gctgatgtga	agaagatgtg	ggaagaatat	960
cctgatgttt	atgggggtcag	gcgggtcaaac	cgaagcagac	aagaaccatc	gcgattta	1020
attaaggaag	aggcaagtag	cgggtctgag	agtgggagcc	caaaaagaag	aggccagagg	1080
cagctgaaaa	aacaagaaaa	atggaaacag	gaaccctcag	aagatgaaca	ggaacaaggc	1140
accagtgcag	agagtgcgac	agaacaaaaa	aaagtaaaag	ccagaagacc	tgtccccaga	1200
agaacagtgc	ccaaacctcg	tgttaaaaa	cagccgaaga	ctcagcgtgg	aaagagaaaa	1260
aagcaagatt	cttctgatga	ggatgatgat	gatgacgaag	ctcccaaaag	gcgactcgt	1320
cgaagagcgg	ctaaaaacgt	tagttacaaa	gaagatgatg	actttgagac	tgactcagat	1380
gatctcattg	aaatgactgg	agaaggagtt	gatgaacagc	aagataatag	tgaactatt	1440
gaaaaggctc	tagattcaag	actgggaaag	aaaggagcca	ctggagcatc	tactactgta	1500
tatgcgattg	aagctaattg	cgaccctagt	ggtgactttg	acactgaaaa	ggatgaaggt	1560
gaaatccagt	acctcatcaa	gtggaagggg	tggctcttaca	tccacagcac	atgggagagt	1620
gaagaatcct	tacagcaaca	gaaagtgaag	ggcctaataa	aactagagaa	cttcaagaaa	1680
aaagaggacg	aatcaaaaca	atgggttaggg	aaagtttctc	ctgaagatgt	agaatatttc	1740
aattgccaac	aggagctggc	ttcagagttg	aataaacagt	atcagatagt	agaaagagta	1800
atagctgtga	agacaagtaa	atctacattg	ggtcaaacag	attttccagc	tcatagtcgg	1860


```

aagccggcac cctcaaatga gcccgaatat ctatgtaaat ggatgggact cccctattca 1920
gagtgtagct gggaagatga agccctcatt ggaaagaaat tccagaattg cattgacagc 1980
ttccacagta ggaacaactc aaaaaccatc ccaacaagag aatgcaaggc cctgaagcag 2040
agaccacgat ttgtagcttt aaagaaacaa cctgcatatt taggagggga gaatctggaa 2100
cttcgagatt atcagctaga aggtctaaac tggctagctc attcctgggtg caaaaaataat 2160
agtgtaatcc ttgctgatga aatgggccta ggaaagacca tccagaccat atcattcctc 2220
tcctacctgt tccaccaaca ccagctgtat ggcccccttc ttatagtcgt ccctttatcc 2280
accctcacct catggcagag agagtttgaa atctgggcac cagagattaa cgtagtgggt 2340
tacataggtg acctgatgag cagaaatacg atacgggaat atgaatggat tcattcccaa 2400
accaaagat tgaagttcaa cgcacttata acaacatatg agatcctctt gaaagataag 2460
actgtgctgg gcagtattaa ctgggccttt ctgggagtg atgaagccca tcggttgaag 2520
aatgatgact ctttattgta taaaactctg attgatttca agtccaacca taggctcctg 2580
attacgggga cccctcttca gaattccctc aaagagctct ggtccttgct gcactttatt 2640
atgccggaga agtttgaatt ttgggaagat tttgaagaag accatgggaa ggggagagag 2700
aatggctacc agagtcttca taaggtgcta gagcctttcc ttctccggag agtcaaaaaa 2760
gatgtggaga aatcccttcc tgctaaagtg gaacagattc tcagggtgga gatgtcagcc 2820
cttcagaaac agtattacaa gtggattctg accaggaatt acaaggctct tgccaaagga 2880
acaagaggca gcacatctgg ttttcttaat attgtgatgg aactgaaaaa atgttgcaac 2940
cactgctatc tgattaaacc ccctgaagaa aatgaaaggg aaaatggaca ggagattcctt 3000
ctgtccctca taaggagcag tgggaagttg attttattag acaaactggt gacaagactt 3060
cgagaaggga ggaatcgagt gcttatcttc tctcagatgg tgagaatggt ggatatcctg 3120
gctgaatacc taactattaa acactatcct ttccagcgtc tggatggttc catcaaggga 3180
gaaatccgaa aacaggcact ggaccacttc aatgcagatg ggtctgagga cttctgtttc 3240
ctgctctcga caagggctgg tggcctggga atcaatttgg cttcagcgga cacagtcgtc 3300
atctttgact ctgactggaa ccccagaat gacttgcagg cacaagcccg agcgcataga 3360
attggtcaga agaagcaggt aaatatctac cgcttagtta caaaggggac tgtggaggag 3420
gagatcatag aacgggccaa aaagaagatg gtattagatc atctggtgat tcagcgcatg 3480
gacaccactg gccggacgat cctggaaaac aactcaggaa ggtccaactc aaatcctttt 3540
aataaagaag agctgacagc tatttgaaa tttggagcag aggatctctt caaagaactg 3600
gaaggggagg aatcgaacc tcaggaaatg gatatagatg aaattttgcg gttggctgaa 3660
acgagagaga atgaagtgtc aacaagtgca acagatgaac ttctatcaca gtttaagggt 3720
gccaactttg caacaatgga agatgaagaa gagctagaag agcgtcctca caaggactgg 3780
gatgagatca ttccagagga acaaaggaaa aaagtagagg aggaagagcg gcagaaggag 3840
ctagaagaaa tttatatgct gcctcgaatt cggagtcca ctaaaaaggc tcagacaaat 3900
gacagtgact ctgacactga gtctaagagg caggcccaga gatcctctgc ttctgagagt 3960
gaaacggaag actctgatga tgacaagaag ccaaagcgca gagggcgtcc gaggagtgtg 4020
cggaaggacc tcgtggaggg atttactgat gcagagatcc gaaggttcat caaggcttat 4080
aagaagtttg gtctccctct tgaacggctg gagtgcatag cacgtgatgc tgagctggta 4140
gataagtcgg tggcagatct gaagcgctg ggtgaactga tccacaacag ctgtgtgtca 4200
gcaatgcagg aatacgaaga gcagctgaaa gaaaatgcc a gcgagggaaa aggaccaggg 4260
aaaaggagag gtccaacaat caagatatcc ggagttcagg ttaatgtgaa atccattatc 4320
caacatgaag aggagtttga gatgctgcat aaatctatcc ctgtggaccc tgaagaaaaa 4380
aaaaataact gcttaacctg tcgtgtcaaa gctgcacatt ttgatgtaga gtgggggggtg 4440
gaagatgatt ctgcctgtt gctggggatt tatgaacatg gctatggaaa ctgggagtta 4500
attaaaacag acccagagct taaattaact gacaaaattc tgccggtgga gacagataaa 4560
aagcctcagg ggaagcagct acagaccga gcggattact tgttgaagct gctcagaaag 4620
ggtctggaga agaagggggc tgtgacaggt ggggaagagg ccaaattaaa gaagcggaag 4680
cctcgggtaa agaaggaaaa caaagtgcc aggtgaaag aggagcatgg aattgagctt 4740
tcatctccta ggcattcaga taatccatca gaagagggag aagtgaaga tgatggcttg 4800
gaaaaagtc caatgaaaaa aaaacagaag aagaaagagg aacaaggaga acaaggagaa 4860
acaaatgagt tctaggaaag acaaagaagg ggacaaggaa agaaagaagt caaaagataa 4920
gaaagagaag cctaaaagtg gtgatgccaa atcttcgagt aaatcaaagc gatctcaggg 4980
tctgtccat attacagcag gaagtgaacc tgtccccatt ggagaggatg aggatgatga 5040
tctggaccag gagacattca gcatatgtaa ggagaggatg aggccgtga aaaaggcact 5100
gaaacagctc gacaaacctg acaaggggct caacgtgcaa agcacactgg aacacacctg 5160
gaactgcctg ctgaaaatcg gagaccgat agccgagtg cttaaagcct actcagatca 5220
ggagcacatc aaactctgga ggaggaacct atggattttt gtttccaagt ttacagaatt 5280
tgatgctcga aaactgcata agttatacaa gatggctcat aagaaaaggt ctcaagaaga 5340
agaggagcaa aagaagaaag acgacgtgac tgggggtaag aaaccatttc gtccagaggc 5400
ctcaggctcc agccgggact ctctgatatc tcagtcccat acctcacaca acctcaccc 5460
tcagaagcct catttgctg cctcccatgg ccacagatg catggacacc caagagataa 5520
ctacaatcac cccaacaaga gacacttcag taatgcagat cgaggagact ggcagaggga 5580

```

PA-0043 US

```

aagaaagtgc aactatggtg gtggcaacaa caatccacca tggggaagcg acaggcacca 5640
tcagtatgag cagcactggt acaaggacca ccattatggg gaccggcgac atatggatgc 5700
ccaccgttcc ggaagctatc gacccaacaa catgtccaga aagaggcctt atgaccagta 5760
cagcagtgc cgagaccacc ggggacacag agattattat gacaggtatg caaaaggctg 5820
tgagacacca ggtgccaaacc tttgccagga gctgtttcta gggagaaagt gacgtatata 5880
tgaatgtatt tatctatcaa attactgaag atctcatcat gcatgtgtca gccacagcga 5940
atcccatgtc ttggttatag gttttatggt ttgttttctg ggtcataggg agcacatttc 6000
acctgtgcag gaaaagaggt ttctgccgtc ttttgaggaa atctagttaa gaggtcgcca 6060
taaaatatta gagtcaacaa ccaaaattat taagctctgt gcgaggcttg ttagcacact 6120
caggggtttg ggagtccgcc atccggaggt gggcacacgc catttctgtt acggtgcccg 6180
gaccaatat tgggaggcta aaatcttctt gagcgcgcgc cccttcttgt actggggata 6240
gtacgcccct ttgtgtgtcc ggggcccata ttctttactt tgggaaagat caccatttcc 6300
cgggaggccc caaagggggt ttttgccgta tttcccaatt cacaactgcg ggaatttttc 6360
cccc

```

<210> 141

<211> 4177

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 900264.1

<400> 141

```

gccgggggtg agggctcgcg ctccgggagc tgcacggggc tgcgtggaaa gagcgccgag 60
cgggtggcgtc gttgtcgccc cctcctcgtc gggaagaatc gtttgggtct ctgccgtgcc 120
cggaatccca gtcagaagtt ccagcctgcc actgttctct gatgccatgc cagcaccaac 180
tcaactgttt ttctctctca tccgtaactg tgaactgagc aggatctatg gcaactgatg 240
ttactgccac cacaacatc tctgttgttc ctcatcgtae attcctcaga gtcgactgag 300
atacacacct catccagcat atgtacacct ttgcaggcca aaggagaact ggtggcagta 360
caccacaagg aggagatat cttccacacc acagaaattt tacctcacac ctccacaagt 420
caatagcatc cttaaagcta atgaatacag tttcaaagtg ccagaatttg acggcaaaaa 480
tgtcagttct atccttggat ttgacagcaa tcagctgcct gcaaattgcac ccattgagga 540
ccggagaagt gcagcaacct gcttgagac cagaggggat cttttggggg tttttgatgg 600
ccatgcagggt tgtgcttgtt ccagggcagt cagtgaagaa ctcttttatt atattgctgt 660
ctctttgtta ccccatgaga ctttgctaga gattgaaat gcagtggaga gggccggggc 720
actgctaccc attctccagt ggcacaagca cccaatgat tactttagta aggaggcatc 780
caaattgtac tttaacagct tgaggactta ctggcaagag cttatagacc tcaacactgg 840
tgagtcgact gatattgatg ttaaggaggc tctaattaat gccttcaaga ggcttgataa 900
tgacatctcc ttggaggcgc aagttgggtg tctaattct tttctcaact acctgggtgt 960
tcgagtggca ttttctggag ccactggcct gtgtggccca tgtggatggt gttgaccttc 1020
atgtggccaa tactggcgat agcagagcca tgctgggtgt gcaggaagag gacgggtcat 1080
ggtcagcagt cacgctgtct aatgaccaca atgctcaaaa tgaaagagaa ctagaacggc 1140
tgaaattgga acatccaaag agtgaggcca agagtgtcgt gaaacaggat cggctgcttg 1200
gcttgctgat gccatttagg gcatttgcca gatgtaaagt tcaaattggag cattgacctt 1260
caaaagagag tgatagaatc tggccagac cagttgaatg acaatgaata tacciaagttt 1320
attcctccta attatcacac acctccttat ctactgctg agccagaggt aacttaccac 1380
cgattaaggc cacaggataa gtttctgggt ttggctactg atgggttgtg ggagactatg 1440
cataggcagg atgtggttag gattgtgggt gactacctaa ctggcatgca tcaccaacag 1500
ccaatagctg ttggtggcta caaggtagct ctgggacaga tgcattggcct ttaacagaa 1560
aggagaacca aaatgtcctc ggtatttgag gatcagaacg cagcaaccca tctcattcgc 1620
cacgctgtgg gcaacaacga gtttgggact gttgatcatg agcgctctc taaaatgctt 1680
agtcttctc aagagcttgc tcgaatgtac agagatgaca ttacaatcat ttagttagtc 1740
ttcaattctc atgttgttag ggcgtatcaa aaccaagaat agtgagtggc tctttactg 1800
gtcaattctc aatgatacac atttaaggc cagatttttt aaaaagatac tactataata 1860
aacattttcc gttgggtcatt ctaagcattt accttttga tactctagct agtcaggtag 1920
tccaaattga ctttgagca ggggtggcagg gtcaggagag tctggtcctg cctagctcag 1980
atttcatggc acctgcactt gaagcaagtc acttctttat cacaggtgtc ttgaaacatt 2040
agcttctttt accaactga gaaaattagg atgacctggc aaataagatc ttgaataggc 2100
caaaagcaag tatcttgctg tgtgtagtct cttggttaaa gtgaagaaac agtactgttc 2160
acacctttct tcaactgagat tccagtgtac atgagaacat atatttattg catgattttc 2220

```

PA-0043 US

tagatacaca	gtctatgcat	tattcatata	catttatttt	agcctaaagt	ggttttcaaa	2280
tccagttctt	caagccataa	atgaccaaga	tccaagcaat	ctgaatttgt	ttttgtgatt	2340
atttgactgg	aatgcttctt	aagtggaata	actatactcc	gttatccacc	cgatttccta	2400
atgtaattga	aacattttct	attttgccac	acacttggag	acaataaggg	tttttagttt	2460
tatctactct	tctattgaag	ttaaagaaag	aaaaaaagat	ttttttattt	gtattaatga	2520
aaagcttttag	tttaaaataa	ggagatccag	aataaaaaaga	agagactgat	ctcttcaatt	2580
attgtcatct	gtagccacca	gcacatcact	cttatgtaat	ccccaagggc	ttggcatgcc	2640
gtaagtgtgt	ggtgggtaga	ctgctgccgg	ggaatcgtac	ttcttattta	gtaatgataa	2700
gacttttcat	tatttttgga	attttaaaga	tgacataaat	aagtttaaat	atcaatttgg	2760
ggagtaaggt	ttaatatgtc	catcgggtat	tgagacagga	ggaagtttct	gtttttctcc	2820
atttagacat	aggtcaatta	aaatatgttg	gtttaaaatg	actaaatgct	ttaaacatat	2880
tgtagcttaa	gatatatgtg	ttaagatata	tacatgagaa	actttaaaag	gtaactactg	2940
tgcattgcctg	atgcttaata	gaatacttag	tggcatcaaa	tgtttgcagc	agtctccata	3000
attatattca	gtcccttcta	atactgtatc	aatgtaaatg	aaataaatat	attcaaattg	3060
gctttttgat	atgcatcaag	tggcattttg	ttcctgtgtt	taatagtgat	ctgtatacag	3120
ctgtgcacat	attgtcatca	cttattctag	catcactgtt	aaggctgtga	ttatgtttga	3180
tattcacctg	gatttttaata	caagccaata	tcagcttccc	attgtgtaat	aacttgggtg	3240
tttaggagtc	ttttcacatt	ttttggggat	atgaactaga	tgttcaagaa	ctccttctgg	3300
actgtggata	ctgaatcagt	gtactattgg	ctgcagaatt	tgtttcaatt	gaaaatagac	3360
tcaggaagat	tgctgctcag	aatatcatat	aatgtttatt	ttttgagggtg	tttttgtttt	3420
tatttgtgtg	tttttctttt	ttttaagtca	gcttgggaact	tttttcctgg	gtagtatttg	3480
ggagagggaa	aggctgtact	atataatttat	ttctaaatgt	tttgactggg	catttttctt	3540
ttaatgaaat	atgtggactg	ctctagcaaa	ccctattttc	agctactatt	tgaatattct	3600
tgaacaccac	cactgaagag	tttcatatac	accaaataat	gtctcatctc	tatagtacag	3660
ggaatataaa	attggtttcc	tgtggtcatg	atcaagatag	tagtattatt	acacaagaaa	3720
cttgggtctgc	agtctggaag	cttgtctgct	ctatagaaat	gaaaatgcag	catgaagttg	3780
acattgtgga	aatgaaagta	attgggtatt	agaaatctga	aagtactgtc	atctaaaagc	3840
aattgtgatt	ttattgtaat	tggttgtcac	tgttgtacgg	tgtctagaat	taaaagaatac	3900
atgtaaactt	tcattggtatt	tagcctttct	taaaattttt	taaaatttaa	actttctaac	3960
ctatgtattc	aacttctgta	ttatatattta	atcattgggtt	catgttatat	aatacaccct	4020
taactagtta	aatggaatgt	tggatatggtg	cagagtacca	tattgctaag	aaaactgtct	4080
tataaaagat	gtatatgtgt	gaagacatga	aagtttaatg	tacagaatgg	ttggagaaat	4140
gcctatgggtg	aattaaagct	tcatatctgc	tttctga			4177

<210> 142

<211> 1744

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 996862.4

<400> 142

gcgccgaggt	gcgccgagca	ggagcagggg	acaaagggagc	ggagaggggga	ggggagagag	60
ttggggcgagg	gagagccccc	ggccggctgc	cagaagatcc	cggcgggagg	aagcccaagt	120
gtcacttgaa	ttccacccaa	ggagcggggc	ctgggatca	gagcgtcctg	tttagcaata	180
acggctggag	cacgtcctac	aagttacggg	agagtcggct	gtgaaggaga	cgttcgctta	240
ccccctgtgt	ccccgtcct	ggccccctcca	gaccccagcc	ttgcctcgcg	ctgggagggg	300
agatccagaa	tgaaggcaa	gaaagggtatt	gttcagcat	ctggcagtga	gactgaggat	360
gaggacagca	tggacattcc	cttggacctt	tcttcatccg	ctggctcagg	caagagaagg	420
agaaggggca	acctacccaa	ggagtctgtg	cagattcttc	gggattggct	gtatgagcac	480
cgttacaatg	cctatccttc	agagcaagaa	aaagcgttgc	tgtcccagca	aacacacctg	540
tctacgtac	agcgtaccga	tatgatttca	ggtctgtaac	tggttcatca	acgcccggcg	600
caggctcctc	cctgacatgc	tgagaaagga	tggcaaagat	ccaaatcagt	tcacaatttc	660
ccgccgtggg	gccaaagattt	ctgaaacgag	ctctgtggag	tccgtgatgg	gcatcaaaaa	720
cttcattgcc	gctctagagg	agaccccat	tcattcctgt	acagctgggc	caaaccacaac	780
cctagggagg	ccactgtctc	ctaagccgtc	atccccggga	tcagttttgg	ctcgtccatc	840
agtgatctgc	cataccactg	tgactgcatt	gaaagatgtc	cctttctctc	tctgccagtc	900
ggtcgggtgtg	ggacaaaaca	cagatatata	gcagatagcg	gccaaaaact	tcacagacac	960
ctctctcatg	taccagagg	acacttgtaa	atctggacca	agtacgaata	cacagagtgg	1020
tcttttcaac	actcctcccc	ctactccacc	ggacctcaac	caggacttca	gtggatttca	1080

PA-0043 US

```

gcttctagtg gatgttgcac tcaaacgggc tgcagagatg gagcttcagg caaaacttac 1140
agcttaaccc attttcaagc aaaacagttc tcagaaatgt catgattgcc ggggtgaagg 1200
caagagatga attgcattat tttatatatt ttttattaat atttgcacat gggattgcta 1260
aaacagcttc ctgttactga gatgtcttca atggaataca gtcattccaa gaactataaa 1320
cttaaagcta ctgtagaaac aaagggtttt ctttttttaa tgtttcttgg tagattattc 1380
ataatgtgag atgggttccca atatcatgtg attttttttt cctccccctc cttttttttg 1440
ttattttttc agactgtgca atacttagag aacctatagc atcttctcat tcccatgtgg 1500
aacaggatgc ccacatactg tctaattaat aaattttcca ttttttttca aacaagtatg 1560
aatctagttg gttgatgcct tttttttcat gacataataa agtattttct ttaaaaattg 1620
ttgtaattca gagtatttct gttgagggag gtgcttctta aaaataagta ggaatatagc 1680
acccagtgga gcaggaagct gggggggtag ggtgcagtggt taggggggtgt caccagctct 1740
ttga 1744

```

<210> 143

<211> 2694

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1094412.1

<400> 143

```

aggcgacggt gaggtcgacg ccggccaaga cagcacagac agattgacct attgggggtgt 60
ttcgcgagtg tgagagggaa gcgcgcggc ctgtatttct agacctgcc ttcgcctggt 120
tcgtggcgcc ttgtgacccc gggccctgc cgctgcaag tcggaaattg cgctgtgctc 180
ctgtgctacg gctgtgggt ggactgcctg ctgctgccc actggctggc aagatgaagc 240
tctccctggt ggcgcgatg ctgctgctgc tcagcgcggc gcggggccga ggaggaggac 300
aagaaggagg acgtgggcac ggtggtcggc atcgacctgg ggaccacct ctcctgcgtc 360
ggcgtgttca agaacggccg cgtggagatg atcgccaacg atcagggcaa ccgcatcacg 420
ccgtcctatg tcgcttcac tctgaaggg gaacgtctga ttggcgatgc cgccaagaac 480
cagctcacct ccaaccccga gaacacggtc ttgacgcca agcggtcat cggccgcacg 540
tggaatgacc cgtctgtgca gcaggacatc aagtctcttg cgttcaagggt ggttgaaaag 600
aaaactaaac catacattca agttgatatt ggaggtgggc aaacaaagac atttgctcct 660
gaagaaattt ctgccatggt tctactaaa atgaaagaaa ccgctgaggc ttatttggga 720
aagaaggtta cccatgcagt tgttactgta ccagcctatt ttaatgatgc ccaacgcaa 780
gcaaccaaag acgctggaac tattgtggc ctaaatgtta tgaggatcat caacgacct 840
acggcagctg ctattgctta tggcctggat aagagggagg gggagaagaa catcctggtg 900
tttgacctgg gtggcggaac cttcgatgtg tctcttctca ccattgacaa tgggtgtctc 960
gaagttgtgg ccactaatgg agatactcat ctgggtggag aagactttga ccagcgtgtc 1020
atggaacact tcatcaaact gtacaaaaag aagacgggca aagatgtcag gaaagacaat 1080
agagctgtgc agaaactccg gcgcgaggta gaaaaggcca aacggggcct gtcttctcag 1140
catcaagcaa gaattgaaat tgagtccttc tatgaaggag aagacttttc tgagaccctg 1200
actcgggcca aatttgaaga gctcaacatg gatctgttcc ggtctactat gaagcccgct 1260
cagaaagtgt tggaagattc tgatttgaag aagctgata ttgatgaaat tgttcttgtt 1320
ggtggctcga ctcgaaattc aaagattcag caactgggta aagagttctt caatggcaag 1380
gaaccatccc gtggcataaa ccagatgaa gctgtagcgt atggtgctgc tgtccaggct 1440
ggtgtgctct ctggtgatca agatacagggt gacctggtac tgcttgatgt atgtcccctt 1500
acacttggtt ttgaaactgt gggaggtgtc atgaccaaac tgattccaag gaacacagtg 1560
gtgcctacca agaagtctca gatcttttct acagcttctg ataatcaacc aactgttaca 1620
atcaaggctc atgaagggtg aagaccctg acaaaagaca atcatcttct gggtagattt 1680
gatctgactg gaattcctcc tgctcctcgt ggggtccac agattgaagt cacctttgag 1740
atagatgtga atgggtattc tcgagtgaac gctgaagaca aggttacagg gaacaaaaat 1800
aagatcacia tcaccaatga ccagaatcgc ctgacacctg aagaaatcga aaggatgggt 1860
aatgatgctg agaagtgtgc tgaggaagac aaaaagctca aggagcgcat tgatactaga 1920
aatgagttgg aaagctatgc ctattctcta aagaatcaga ttggagataa agaaaagctg 1980
ggaggtaaac tttcctctga agataaggag accatggaaa aagctgtaga agaaaagatt 2040
gaatggctgg aaagccacca agatgctgac attgaagact tcaaagctaa gaagaaggaa 2100
ctggaagaaa ttgttcaacc aattatcagc aaactctatg gaagtgcagg ccctcccca 2160
actggtgaag aggatacagc agaaaaagat gagttgtaga cactgatctg ctagtgtgtg 2220
aatattgtaa atactggact caggaacttt tgtaggaaa aaattgaaag aacttaagtc 2280
tcgaatgtaa ttggaatctt cacctcagag tggagttgaa actgctatag cctaagcggc 2340

```

PA-0043 US

tgtttactgc	ttttcattag	cagttgctca	catgtctttg	ggtggggggg	agaagaagaa	2400
ttggccatct	taaaaagcgg	gtaaaaaacc	tgggttaggg	tgtgtgttca	ccttcaaaat	2460
gttctattta	acaactgggt	catgtgcac	tgggttagga	agttttttct	accataagt	2520
acaccaataa	atgtttgtta	tttactactg	tctaattgtt	gtgagaagct	tctaattaga	2580
tcaattactt	atttttaggaa	atttaagact	agatactcgt	gtgtgggggtg	aggggagggg	2640
gtatttggtg	tggtgggata	aggaaacact	tctatttaat	gcttccaggg	at	2694

<210> 144

<211> 7823

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1251672.1

<220>

<221> unsure

<222> 7472

<223> a, t, c, g, or other

<400> 144

gctcgctata	taagccagcc	aaagttggct	gcaccggcca	cagcctgcct	actgtcaccc	60
gcctctcccg	cgcgcagata	cacgcccccg	cctccgtggg	cacaaaggca	gcgctgctgg	120
ggaactcggg	ggaacgcgca	cgtgggaacc	gccgcagctc	cacactccag	gtacttcttc	180
caaggaccta	ggtctctcgc	ccatcgga	gaaaataatt	ctttcaagaa	gatcagggac	240
aactgatttg	aagtctactc	tgtgcttcta	aatccccaat	tctgctgaaa	gtgagatacc	300
ctagagccct	agagccccag	cagcaccacg	ccaaacccac	ctccaccatg	gggggggtcc	360
ctcagctggt	ggcaggtgtc	tttcttgctt	tccttgccct	cgctaccgaa	ggtgggggtcc	420
tcaagaaagt	catccggcac	aagcgacaga	gtgggggtgaa	cgccaccctg	ccagaagaga	480
accagccagt	ggtgtttaac	cacgtttaca	acatcaagct	gccagtggga	tcccagtgtt	540
cgggtggatct	ggagtacagc	agtggggaga	aagacctggc	accgccttca	gagccagcgc	600
aaagctttca	ggagcacaca	gtagatgggg	aaaaccagat	tgtcttcaca	catcgcatca	660
acatcccccg	ccgggcctgt	ggctgtgccg	cagccccctga	tgttaaggag	ctgctgagca	720
gactggagga	gctggagaac	ctgggtgtct	ccctgagggg	gcaatgtact	gcaggagcag	780
gctgctgtct	ccagcctgcc	acagggccgt	tggacaccag	gcccttctgt	agcggtcggg	840
gcaacttcag	cactgaagga	tgtggctgtg	tctgcgaacc	tggctggaaa	ggccccaact	900
gctctgagcc	cgaatgtcca	ggcaactgtc	accttcgagg	ccggtgcatt	gatgggcagt	960
gcatctgtga	cgacggcttc	acgggcgagg	actgcagcca	gctggcttgc	cccagcgact	1020
gcaatgacca	gggcaagtgc	gtgaatggag	tctgcatctg	tttcgaaggc	tacgccgggg	1080
ctgactgcag	ccgtgaaatc	tgcccagtgc	cctgcagtga	ggagcacggc	acatgtgtag	1140
atggcttgtg	tgtgtgccac	gatggctttg	caggcgatga	ctgcaacaag	cctctgtgtc	1200
tcaacaattg	ctacaaccgt	ggacgatgcg	tggagaatga	gtgctgtgtg	gatgaggggt	1260
tcacggggcg	agactgcagt	gagctcatct	gccccaatga	ctgcttcgac	cggggccgct	1320
gcacaaatgg	cacctgtctc	tgcaagaag	gcttcacagg	tgaagactgc	gggaaaccca	1380
cctgcccaca	tgccctgccac	acccagggcc	ggtgtgagga	ggggcagtg	gtatgtgatg	1440
agggctttgc	cgggtgtggac	tgacgcgaga	agaggtgtcc	tgctgactgt	cacaatcgtg	1500
gccgctgtgt	agacggggcg	tgtgagtgtg	atgatggttt	cactggagct	gactgtgggg	1560
agctcaagtg	tcccattggc	tgacgtggcc	atggccgctg	tgtcaatggg	cagtgtgtgt	1620
gtgatgaggg	ctatactggg	gaggactgca	gccagctacg	tgccccaat	gactgtcaca	1680
gtcggggccg	ctgtgtcgag	ggcaaatgtg	tatgtgagca	aggcttcaag	ggctatgact	1740
gcagtgcacat	gagctgccct	aatgactgtc	accagcacgg	ccgctgtgtg	aatggcatgt	1800
gtgtttgtga	tgacgggtac	acaggggaag	actgccggga	tcgccaatgc	cccagggact	1860
gcagcaacag	gggcctctgt	gtggacggac	agtgcgtctg	tgaggacggc	ttcaccggcc	1920
ctgactgtgc	agaactctcc	tgtccaaatg	actgccatgg	ccgggggtcgc	tgtgtgaatg	1980
ggcagtcgct	gtgccatgaa	ggatttatgg	gcaaagactg	caaggagcaa	agatgtccca	2040
gtgactgtca	tggccagggc	cgctgcgtgg	acggccagtg	catctgccac	gagggcttca	2100
caggcctgga	ctgtggccag	cactcctgcc	ccagtgcact	caacaactta	ggacaatgcg	2160
tctcggggccg	ctgcatctgc	aacgagggct	acagcggaga	agactgctca	gaggtgtctc	2220
ctcccaaaga	cctcggttgtg	acagaagtga	cgggaagagac	ggtcaacctg	gcctggggaca	2280
atgagatgcg	ggtcacagag	taccttgtcg	tgtacacgcc	caccacagag	ggtggtctgg	2340
aaatgcagtt	ccgtgtgcct	ggggaccaga	cgtccaccat	catccaggag	ctggaacctg	2400

gtgtggagta	ctttatccgt	gtattttgcc	tcttggagaa	caagaagagc	attcctgtca	2460
gcgccagggt	ggccacgtac	ttacctgcac	ctgaaggcct	gaaattcaag	tccatcaagg	2520
agacatctgt	ggaagtggag	tgggatccct	tagacattgc	ttttgaaacc	tgaggagatca	2580
tcttccggaa	tatgaataaa	gaagatgagg	gagagatcac	caaaagcctg	aggaggccag	2640
agacctctta	ccggcaaaact	ggtctagctc	ctgggcaaga	gtatgagata	tctctgcaca	2700
tagtgaaaaa	caatacccg	ggccctggcc	tgaagagggt	gaccaccaca	cgcttggatg	2760
ccccagcca	gatcgagggt	aaagatgtca	cagacaccac	tgccttgatc	acctggttca	2820
agcccctggc	tgagatcgat	ggcattgagc	tgacctacgg	catcaaagac	gtgccaggag	2880
accgtaccac	catcgatctc	acagaggacg	agaaccagta	ctccatcggg	aacctgaagc	2940
ctgacactga	gtacgagggt	tccctcatct	cccgcagagg	tgacatgtca	agcaaccag	3000
ccaaagagac	cttcacaaca	ggcctcgatg	ctcccaggaa	tcttcgacgt	gtttcccaga	3060
cagataaacg	catcaccttg	gaatggagga	atggcaaggc	agctattgac	agttacagaa	3120
ttaagtatgc	ccccatctct	ggaggggacc	acgctgagggt	tgatgttcca	aagagccaac	3180
aagccacaac	caaaaccaca	ctcacaggtc	tgaggccggg	aactgaatat	gggattggag	3240
tttctgctgt	gaaggaagac	aaggagagca	atccagcgac	catcaacgca	gccacagagt	3300
tggaacgccc	caaggacctt	cagggtttctg	aaactgcaga	gaccagcctg	accctgctct	3360
ggaagacacc	gttggccaaa	tttgaccgct	accgcctcaa	ttacagtctc	cccacaggcc	3420
agtgggtggg	agtgcagctt	ccaagaaaca	ccacttccta	tgtcctgaga	ggcctggaac	3480
caggacagga	gtacaatgtc	ctcctgacag	ccgagaaagg	cagacacaag	agcaagccc	3540
caggtgtgaa	ggcatccact	gaacaagccc	ctgagctgga	aaacctcacc	gtgactgagg	3600
ttggctggga	tgccctcaga	ctcaactgga	ccgcagctga	ccaggcctat	gagcacttta	3660
tcattcagggt	gcaggaggcc	aacaagggtg	aggcagctcg	gaacctcacc	gtgcctggca	3720
gccttcgggc	tgtggacata	ccgggcctca	aggctgctac	gccttataca	gtctccatct	3780
atggggtgat	ccagggtctat	agaacaccag	tgctctctgc	tgaggcctcc	acaggggaaa	3840
ctcccaatth	gggagagggt	gtgggtggcg	agggtgggctg	ggatgccctc	aaactcaact	3900
ggactgctcc	agaagggggc	tatgagtact	ttttcattca	ggtgcaggag	gctgacacag	3960
tagaggcagc	ccagaacctc	accgtcccag	gaggactgag	gtccacagac	ctgcctgggc	4020
tcaaagcagc	cactcattat	accatcacca	tccgcgggggt	cactcaggac	ttcagcaca	4080
ccctctctct	tggtgaagtc	ttgacagagg	aggttccaga	tatgggaaac	ctcacagtga	4140
ccgaggttag	ctgggatgct	ctcagactga	actggaccac	gccagatgga	acctatgacc	4200
agtttactat	tcagggtccag	gaggctgacc	agggtggaaga	ggctcacaat	ctcacggttc	4260
ctggcagcct	gcgtttccatg	gaaatcccag	gcctcagggc	tggtcactcct	tacacagtca	4320
ccctgcacgg	cgagggtcagg	ggccacagca	ctcgaccctc	tgctgtagag	gtcgtcacag	4380
aggatctccc	acagctggga	gatttagccg	tgctcgagggt	tggtcgggat	ggcctcagac	4440
tcaactggac	cgcagctgac	aatgcctatg	agcactttgt	cattcagggtg	caggagggtca	4500
acaaagtggg	ggcagcccag	aacctgcacg	ttgcctggca	gcctcagggc	tgtggacatc	4560
ccgggcctcg	aggctgccac	gccttataga	gtctccatct	atgggggtgat	ccggggcctg	4620
agaacaccag	tactctctgc	tgaggcctcc	acagccaaag	aaactgaaat	tggaacttta	4680
aatgtttctg	acataactcc	cgcagacttc	aatctctcct	ggatggctac	cgatgggatc	4740
ttcgagacct	ttaccattga	aattattgat	ttcaataggt	tgctggagac	tgtggaatat	4800
aatatctctg	gtgctgaacg	aactgcccac	atctcagggc	taccccttag	tactgatttt	4860
attgtctacc	tctctggact	tgctcccagc	atccggacca	aaaccatcag	tgccacagcc	4920
acgacagagg	ccctgcccct	tctggaaaac	ctaaccattt	ccgacattaa	tccctacggg	4980
ttcacagtth	cctggatggc	atcggagaat	gcctttgaca	gctttctagt	aacggtgggtg	5040
gattctggga	agctgctgga	ccccaggaa	ttcacacttt	caggaacca	gaggaagctg	5100
gagcttagag	gcctcataac	tggtcattggc	tatgagggtta	tggtctctg	cttcacccaa	5160
gggcatcaaa	ccaagccctt	gagggctgag	attgttacag	aagccgaacc	ggaagttgac	5220
aacctttctg	tttcagatgc	caccccagac	ggtttccgtc	tgtcctggac	agctgatgaa	5280
gggggtcttcg	acaattttgt	tctcaaaatc	agagatacca	aaaagcagtc	tgagccactg	5340
gaaataaccc	tacttgcccc	cgaacgtacc	agggacttaa	caggctctcag	agaggctact	5400
gaatacgaaa	ttgaactcta	tggaataagc	aaaggaaggc	gatcccagac	agtcagtgtc	5460
atagcaacaa	cagccatggg	ctccccaaag	gaagtcattt	tctcagacat	cactgaaaat	5520
tcggctactg	tcagctggag	ggcaccacac	gcccagtggg	agagcttccg	gattacctat	5580
gtgcccatta	caggagggtac	accctccatg	gtaactgtgg	acggaaccaa	gactcagacc	5640
aggctgggtg	aactcatacc	tggcgtggag	tacctgttca	gcatcatcgc	catgaagggc	5700
tttgaggaaa	gtgaacctgt	ctcagggtca	ttcaccacag	ctctggatgg	cccatctggc	5760
ctggtgacag	ccaacatcac	tgactcagaa	gccttgacca	ggtggcagcc	agccattgcc	5820
actgtggaca	gttatgtcat	ctcctacaca	ggcgagaaag	tgccagaaat	tacacgcacg	5880
gtgtccggga	acacagtggg	gtatgtctctg	accgacctcg	agcctgccac	ggaatacaca	5940
ctgagaatct	ttgcagagaa	agggccccag	aagagctcaa	ccatcactgc	caagttcaca	6000
acagacctcg	attctccaag	agacttgact	gctactgagg	ttcagtcgga	aactgccctc	6060
cttacctggc	gacccccccg	ggcatcagtc	accggttacc	tgctgggtcta	tgaatcagtg	6120

PA-0043 US

gatggcacag	tcaaggaagt	cattgtgggt	ccagatacca	cctcctacag	cctggcagac	6180
ctgagcccat	ccaccacta	cacagccaag	atccaggcac	tcaatgggcc	cctgaggagc	6240
aatatgatcc	agaccatctt	caccacaatt	ggactcctgt	accccttccc	caaggactgc	6300
ttccaagcaa	tgctgaatgg	agacacgacc	tctggcctct	acaccattta	tctgaatggt	6360
gataaggctg	aggcgctgga	agtcttctgt	gacatgacct	ctgatggggg	tggatggatt	6420
gtgttcctga	gacgcaaaaa	cggacgcgag	aacttctacc	aaaactggaa	ggcatatgct	6480
gctggatttg	gggaccgcag	agaagaattc	tggtctgggc	tggacaacct	gaacaaaatc	6540
acagcccagg	ggcagtacga	gctccgggtg	gacctgcggg	accatgggga	gacagccttt	6600
gctgtctatg	acaagttcag	cgtgggagat	gccaaagactc	gctacaagct	gaaggctggag	6660
gggtacagtg	ggacagcagg	tgactccatg	gcctaccaca	atggcagatc	cttctccacc	6720
tttgacaagg	acacagattc	agccatcacc	aactgtgctc	tgctctacaa	aggggctttc	6780
tggtacagga	actgtcaccg	tgtcaacctg	atggggagat	atggggacaa	taaccacagt	6840
cagggcggtta	actggttcca	ctggaagggc	cacgaacact	caatccagtt	tgctgagatg	6900
aagctgagac	caagcaactt	cagaaatctt	gaaggcaggc	gcaaacgggc	ataaattcca	6960
gggaccactg	ggtgagagag	gaataaggcc	cagagcgagg	aaaggatttt	accaaagcat	7020
caatacaacc	agccaacca	tcggtccaca	cctgggcatt	tggtgagagt	caaagctgac	7080
catggatccc	tggggccaac	ggcaacagca	tgggcctcac	ctcctctgtg	atctctttct	7140
ttgcaccaa	gacatcagtc	tccaacatgt	ttctgttttg	ttgtttgatt	cagcaaaaat	7200
ctcccagtga	caacatcgca	atagtttttt	acttctctta	ggtggctctg	ggaatgggag	7260
aggggtagga	tgtacagggg	tagtttgttt	tagaaccagc	cgtattttac	atgaagctgt	7320
ataattaatt	gtcattattt	ttgttagcaa	agattaaatg	tgtcattgga	agccatccct	7380
ttttttacat	ttcatacaac	agaaaccaga	aaagcaatac	tgtttccatt	ttaaggatat	7440
gattaatatt	attaatataa	taatgatgat	gntgatgatg	aaaactaagg	atctttcaag	7500
agatctttct	ttccaaaaca	tttctggaca	gtacctgatt	gtattttttt	tttaaataaa	7560
agcacaagta	cttttgagtt	tgttattttg	ctttgaattg	ttgagtctga	atctcaccaa	7620
agccaatcat	ttgaacaaag	cggggaatgt	tgggatagga	aaggtaagta	gggatagtgg	7680
tcaagtggga	ggggtggaaa	ggagactaaa	gactgggaga	gagggaagca	ctttttttaa	7740
ataaagttaga	acacacttgg	gaaaagctta	caggccaggc	ctgtgatccc	aacactttgt	7800
ggaggccaac	gtggggagga	tag				7823